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DATALOGIC: SOLUTIONS FOR INDUSTRIAL AUTOMATION

Datalogic Industrial Automation is an industry-leader in products and solutions for material handling, traceability, inspection and detection applications.

With the acquisitions of Accu-Sort and PPT Vision in 2012, the company offers a comprehensive portfolio of products, technologies and solutions delivered by a team of skilled professionals dedicated in providing superior service to customers.

Datalogic is the partner of choice for organizations in the Industrial Automation market.

Manufacturing

- AUTOMOTIVE
- ELECTRONICS
- FOOD & BEVERAGE
- GENERAL MANUFACTURING
- HEALTHCARE PHARMACEUTICAL

Transportation & Logistics

- AIRPORTS
- COURIER, EXPRESS PARCEL (CEP)
- POSTAL
- RETAIL DISTRIBUTION

Product portfolio

Datalogic Industrial Automation has the most comprehensive offering of products and solutions for traceability, inspection and detection applications in factory automation and logistics processes: industrial LASER scanners, cameras and vision systems, sensors, machine safety devices and LASER markers.

Identification

Even the most demanding and efficient automation of identification processes can leverage Datalogic Industrial Automation's leadership in the market. We manufacture the world's most comprehensive family of fixed-mount line and omnidirectional scanners.

We also offer the latest CCD vision technology with the world's largest installed base of CCD systems for bar code reading and dimensioning.

All of our AUTO-ID products and solutions leverage the broadest decoding library that has been developed through the years. Datalogic's comprehensive AUTO-ID portfolio is used in a wide range of applications and machines which are behind many of the everyday processes that keeps the global economy running.

Sensors & Safety

Datalogic Industrial Automation offers a best-in-class, comprehensive product portfolio of photoelectric and proximity sensors, rotary encoders, temperature controllers and measurement devices, as well as type 2 and type 4 safety light curtains. These product lines provide solutions for applications involving color, contrast and luminescence, label detection, dimensional and distance measurement, in addition to machine safeguarding and access control in dangerous areas.

Machine Vision

The Datalogic Industrial Automation machine vision product line encompasses both hardware and software while covering a wide range of performance and price point requirements. The vision portfolio of products and solutions ranges from standalone compact smart cameras to the highest performance embedded processors.

Laser Marking

Laser Marking sources and systems provide value driven marking solutions for automotive, metal tools, medical, electronics and packaging. Datalogic Industrial Automation offers an extensive range of state-of-the-art technology, excellent performance and high reliability marking equipment.



Inductive Sensors

Inductive proximity sensors generate a magnetic field from their detection faces. Whenever a detectable object moves into the sensor's field of detection, Eddy currents build up in the target and dampen the sensor's magnetic field. This effect triggers the sensor's output. Since a current in the target is needed for detection, inductive proximity sensors are uniquely suited for detection of all types of metals.

ADVANTAGES

- -Not affected by humidity and dust
- -No moving parts, no mechanical wear
- -Independent of the color of the object to detect
- -No dead zone

DISADVANTAGES

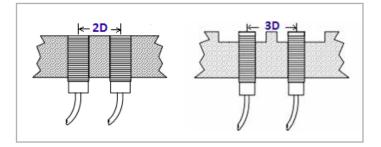
- -only detect metallic objects
- -low operating distance
- -sensitive to electromagnetic interference
- (such as electric welding, induction ovens)

Shielded models - FLUSH mounting

Shielded models can be installed with their sensing faces flush to the metal. The distance from opposing metal surfaces must be \geq 3sn and the distance between two proximity switches (side-byside) \geq 2D.

Unshielded models - NON-FLUSH mounting

Unshielded models can be identified by their 'caps", since they have no metal housing surrounding the area of the sensing face. The sensing face must extend ≥ 2 sn from the metallic installation medium. The distance from opposing metal surfaces must be ≥ 3 sn and the distance between two adjacent proximity switches $\geq 3D$. The metal body leaves uncovered part of the sensing area resulting in an increased sensing distance.



Main tubular models are available in both nickel plated brass and stainless steel housing, with the active sensing face in LCP plastic.

METAL FACE version:

Are available stainless steel versions (M12,M18).

Are used in especially harsh environments and applications which are too extreme for standard sensors. They resist to abrasive media, aggressive cleaners and solvents with their rugged sensing face. IP67 protection.

WELD FIELD IMMUNE version:

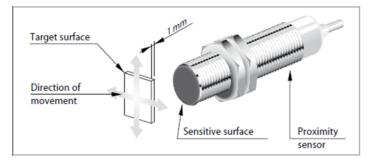
These special field immune models are ideal for welding environments and other applications where large magnetic fields are present. They are rated for reliable operation near the current line carrying 20,000 amps.

NAMUR version:

Are available 2 wires versions (M5, M6,5, M8, M12, M18, M30). They can be used in conjunction with suitable switching amplifiers. The switch amplifier must be installed outside the explosive area. Almost all versions have IP67 mechanical protection.

Nominal Switching distance (Sn) According to EN 60947-5-2

When an inductive proximity sensor is rated for sensing distance, it refers to the sensor's ability to detect the 'standard detectable object" at its specified sensing distance. The 'standard detectable object" is a 1mm thick square piece of ferrous iron that is in height and width the size of the proximity sensor's detection face's diameter.

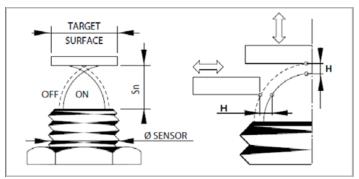


When the object to be detected is a different metal material, multiply the value of the rated operating distance for a reduction factor. The table beside shows the average reduction factors of materials according to the standards.

REDUCTION FACTOR	
Fe37	1 x Sn*
Stainless Steel AISI316L (X2CrNiMo17-12-2, UNI EN 10088-3)	0,9 x Sn
Brass-Bronze (CuZn33, UNI EN 12163:1999)	0,5 x Sn
Aluminum (25°C) (EN AW-1060, UNI EN 573-3:2006)	0,4 x Sn
Copper (Cu-DHP, UNI EN 1652:1999)	0,3 x Sn

Hysteresis (H):

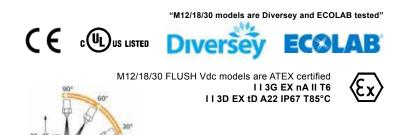
distance between the point of switching on and the point of switching off of the trigger object. The value is a percentage of the nominal switching distance Sn.



AC/DC version:

Are available 2/3-wires versions (M12, M18, M30) , that operate in alternating current with voltage drop of 5 V for currents of the order of 100mA.

To be able to provide a proper potential drop at the load, it is recommended to power the sensors with at least a supply voltage equal to the Voltage drop indicated (5V).



IP69K



OPERATING DISTANCE

MODEL	M4	M5	M6,5	M8	M12	M18	M30	SQUARE
DIAMETER (mm)	4	5	6,5	8	12	18	30	8X8; 40X40
OPERATING DISTANCE (mm)	0,8	0,81,5	13	1,53	28	514	1020	1,530

HOUSING

The following tables are showing the approximate housing length (mm) for the tubular inductive sensors and the absolute maximum installation limit of the mounting torque.

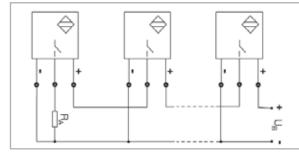
MODELS	STANDARD MOI	DEL LENGTH (mm)	SHORT MODEL LENGTH (mm)	
MODELS	connector	cable	connector	cable
M4		25		
M5	40	2025		
M6,5	5363	4655	5054	4044
M8	5273	4455	4857	4044
M12	6872	5864	4854	4248
M18	7382	7078	5665	4756
M30	7485	7082	5668	4956

	INSTALLATION TIGHT	ENING TORQUE		
MOUNTING	Flush, No Flush mountable	Diameter	A (11 mm)	В
HOUSING MATERIAL	Stainless Steel, Nickel Brass	4 mm	1,5 [Nm]	1,5 [Nm]
		5 mm	1,5 [Nm]	1,5 [Nm]
		8 mm	2 [Nm]	4 [Nm]
INSTALLATION	e e	12 mm	6 [Nm]	10 [Nm]
	<u>ра</u>	18 mm	20 [Nm]	30 [Nm]
	<u>∼</u> u-9	30 mm	40 [Nm]	60 [Nm]

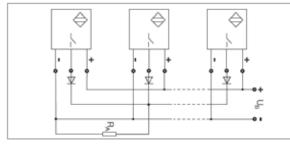
WIRES

ТҮРЕ	DESCRIPTION
	Work with sinking or sourcing devices
2-3 WIRES	Vdc, Vac and NAMUR versions
	Higher leakage current
	Must select PNP or NPN, NC or NO version
3 WIRES	10-30 Vdc version
	Low leakage current
4 WIRES	Programmable output
4 WIRES	PNP/NPN and NC/NO in one device

The number of inductive proximity sensors that can be connected in series or parallel is limited.



Parallel connection: the leakage current of each single sensor, when added to the other, may accumulate and drive the load even in the absence of operated switches.



This problem is more relevant in versions AC 2-wire, because of the high voltages and currents supplied to the sensor. For this type of connection you should use a 3-wire sensors working in DC.

ELECTRICAL PARAMETERS

NOMINAL VOLTAGE

Is the permissible voltage range in which certain safe operation of the switch is guaranteed.

RESIDUAL RIPPLE

Is the maximum admissible ripple of the DC supply voltage shown as percentage to its medium value.

MAX. OUTPUT CURRENT

It shows maximum output current a sensor can cope with when working steadly.

MIN. OUTPUT CURRENT

Is the smallest load current required for function of the switch when ON.

RESIDUAL CURRENT

Is the current flowing through the load when a proximity switch is not conducting (open).

VOLTAGE DROP

Is the voltage measured across the load of a closed (conducting) sensor at load current.

START UP DELAY

Is the time from when the supply voltage is applied, and the proximity switch assumes the ready state. This time may not be longer than 300 ms. During this time there must be no fault signal longer than 2 ms.

 SWITCHING FREQUENCY Refers to the maximum number of switching operations per second.

SHORT CIRCUIT PROTECTION

Is 100 A, i. e., per EN 60947-5-2 the power supply during testing in short circuit mode must be able to provide at least 100 A for a short duration. This current is prescribed in the standard in order to test.

 PROTECTION AGAINST INVERSION OF POLARITY

Available in DC supplied type, it prevents the sensor from being damage when supply cables are incorrectly connected.

• INDUCTIVE LOAD PROTECTION It protects sensor output in presence of high inductive loads. This protection is performed by a diode or zenner diode.

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BASIC

Nickel-plated Brass housing

- LCP active face
- Standard length
- Short length
- Normal and Double range Operating distance
- Operating distance: 1,5 ... 20 mm 11
- M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 2, 3 or 4 wires
- PNP, NPN, PNP/NPN, NO, NC, NO/NC
- IP67 protection ÷

INDUCTIVE AC

- Nickel-plated Brass housing
- PA 16 active face
- Standard length .
- Operating distance 2 ... 10 mm
- M12, M18, M30 х.
- cable or M12 connector
- 20+250 Vac (50,60 Hz)
- 2 or 3 wires d.
- NO
- IP67 protection н.

STAINLESS STEEL

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- Stainless Steel housing
- M4, M5 POM active face M6,5, M8, M12, M18, M30 LCP active face
- Standard length ÷
- Short length .
- Normal and Double range Operating distance
- Operating distance 0.8 ... 20 mm .
- M4, M5, M6,5, M8, M12, M18, M30
- cable, M8 or M12 connector
- 3 wires н.

NAMUR

- PNP, NPN, NO, NC .
- IP69K protection

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- Nickel-plated Brass housing
- LCP active face
- Short length ÷.
- Operating distance 0.8 ... 15 mm
- M12, M18
- cable, M8 or M12 connector
- 2 wires
- PNP, NO
- IP67 protection

III B Ste Shife

M4

- flush
- Stainless Steel
- op.dist.: 0,8 mm - diameter: 4 mm
- 3 wires
- PNP or NPN, N.O.
- cable

M5

- flush
- Stainless Steel - op.dist.: 0,8 mm
- double range vers.:
- 1,5 mm - diameter: 5 mm
- 3 wires
- NAMUR vers. - PNP or NPN, N.O.,
- N.C.
- M8 connector or
- cable

M6,5

- flush, non-flush - Stainless Steel, Nickel
- plated-Brass
- op.dist.: 1,5...2 mm
- double range vers.: 2...3 mm
- diameter: 6,5 mm
- standard or short housing - 3 wires
- NAMUR (2wires) vers. - PNP or NPN, N.O., N.C.
- M8 connector or cable

M8

- flush, non-flush
- Stainless Steel, Nickel
- plated-Brass
- op.dist.: 1,5...2 mm - double range vers.: 2...3
- mm - diameter: 8 mm
- standard or short housing - 3 wires
- NAMUR (2wires) vers.PNP or NPN, N.O., N.C.
- M8, M12 connector or cable
- NAMUR vers.

- Vac/Vdc vers.

mm

M12

- flush, non-flush

plated-Brass

- op.dist.: 2...4 mm

- diameter: 12 mm

- Stainless Steel, Nickel

- double range vers.: 4...8

- standard or short housing

NPN/PNP output) wires

- 2, 3, 4 (programmable

- Metal Face vers. - Field Immune vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable

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METAL FACE

- Stainless Steel housing
- Stainless Steel AISI 303 active face
- Stainless Steel active face .
- Standard length
- 2 ... 8 mm
- M12, M18
- M12 connector
- 3 wires
- PNP, NO н.
- IP67 protection

SOUARE

- PBT (resin) or Nickel-plated Brass housing
- Operating distance 1.5 ... 15 mm
- 40x40 mm or 8x8 mm dimension
- cable, M8 connector or Terminal Block
- 2 or 3 wires
- PNP, PNP/NPN, NO, NC, NO/NC
- IP67

WELD FIELD IMMUNE

- Stainless Steel housing
- PTFE active face
- Standard length

CAPACITIVE

Nickel plated brass

- M18, M30
- Basic line NO-NC
- Capacitive A.C. (plastic housing)
- Multivoltage (SPDT relay)
- Operating distance: 5...25 mm
- Cable or M8 connector
- 2,4,6 wires
- PNP or NPN, N.O. and N.C. outputs, SPDT relay
- Delay ON or delay OFF model
- IP67 protection

CABLES, CONNECTORS & ACCESSORIES

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SOUARE 8X8

- Nickel-Plated Brass

- op.dist.: 1,5 mm

- diameter: 8 mm

- 3 wires, PNP, N.O.

- M8 connector or cable

M18

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 5...8 mm
- double range vers.: 8...14 mm
- diameter: 18 mm - standard or short housing
- 2, 3 4 (programmable NPN/PNP
- output) wires
- Vac/Vdc vers.
- Metal Face vers.
- Field Immune vers. - NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.

M30

- flush, non-flush
- Stainless Steel, Nickel plated-Brass
- op.dist.: 10...15 mm
- double range vers.: 15...20 mm
- diameter: 30 mm - standard or short housing
- 2, 3, 4 (programmable NPN/PNP
- output) wires
- Vac/Vdc vers.
- NAMUR vers.
- PNP or NPN, N.O., N.C.
- M12 connector or cable
- Capacitive D.C., N.O.-N.C. outputs
- Capacitive A.C., 2 wires, N.O.
- Capacitive Multivoltage with timer relay output

SQUARE 40X40

- flush, non-flush
- standard or short housing
- Plastic (PBT resin)
- op.dist.: 15...30 mm; 7-20 mm (Analog vers.)
- diameter: 40 mm
- 2, 3 wires

Street and Street and All

- Vac/Vdc vers.
- Analog output 4-20mA vers.
- PNP or NPN, N.O., N.C. - Terminal block

- flush

OIDOJATACO 7

- Operating distance 2 ... 8 mm н.
- M12, M18

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- M12 connector
- 3 wires
- PNP, NO
- IP67 protection

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BASIC

Nickel-plated Brass housing LCP active face Standard length Short length Normal and double range operating distance Operating distance: 1,5 ... 20 mm M6,5, M8, M12, M18, M30 cable, M8 or M12 connector 2, 3 or 4 wires PNP, NPN, PNP/NPN, NO, NC, NO/NC IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

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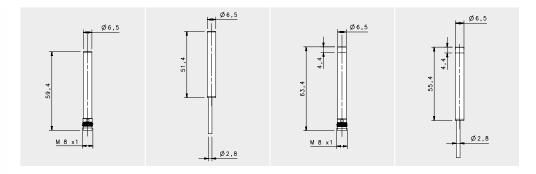
"M12/18/30 models are Diversey and ECOLAB tested"





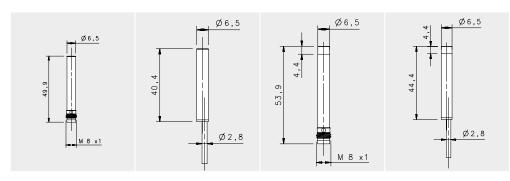
BASIC M6.5





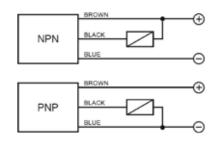
				STANDARD				
				FLU	ISH	NON F	LUSH	
				M8 conn	cable	M8 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	2 mm	2 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.					
10-30 Vdc	PNP NO	3 wires	order No.	IS-65-A1-S1 95B066050	IS-65-A1-03 95B064730	IS-65-C1-S1 95B066210	IS-65-C1-03 95B064890	
10-30 Vdc	PNP NC	3 wires	order No.	IS-65-A2-S1 95B066090	IS-65-A2-03 95B064770	IS-65-C2-S1 95B066250	IS-65-C2-03 95B066300	
10-30 Vdc	NPN NO	3 wires	order No.	IS-65-A3-S1 95B064970	IS-65-A3-03 95B064650	IS-65-C3-S1 95B066130	IS-65-C3-03 95B064810	
10-30 Vdc	NPN NC	3 wires	order No.	IS-65-A4-S1 95B066010	IS-65-A4-03 95B064690	IS-65-C4-S1 95B066170	IS-65-C4-03 95B064850	
10-30 Vdc	PNP NO-NC	4 wires	order No.					
10-30 Vdc	NPN NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3 wires	order No.					
10-30 Vdc	Analog 0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mm	200 mA	200 mm	200 mA
Min. Output Current				
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
Voltage Drop	< 1,2 V (l=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (I=100 mA)	< 1,2 V (l=100 mA)
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		3x 0,14 mm²		3x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active Face	LCP	LCP	LCP	LCP
Tightening torque				
Weight - Cable Output		80 g		80 g
Weight - Connector Output	40 g		40 g	



	SH	ORT	
FLI	JSH		LUSH
M8 conn	cable	M8 conn	cable
1,5 mm	1,5 mm	2 mm	2 mm
IS-65-B1-S1	IS-65-B1-03	IS-65-D1-S1	IS-65-D1-03
95B066070	95B064750	95B066230	95B064910
IS-65-B2-S1	IS-65-B2-03	IS-65-D2-S1	IS-65-D2-03
95B066110	95B064790	95B066270	95B064950
IS-65-B3-S1	IS-65-B3-03	IS-65-D3-S1	IS-65-D3-03
95B064990	95B064670	95B066150	95B064830
IS-65-B4-S1	IS-65-B4-03	IS-65-D4-S1	IS-65-D4-03
95B066030	95B064710	95B066190	95B066190
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
	80 g		80 g
40 g		40 g	

3 wires PNP or NPN



M8 3 pole

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 CONTACTS CONFIGURATION

 Available
 Contacts numbers

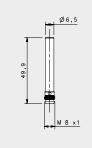
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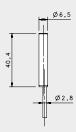
 INDEV
 INDE
 IEACX

 NPN/PNP
 +
 NOINC

BASIC M6.5







80 g

SHORT X2

				FLL	JSH
				M8 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		2 mm	2 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires			
			order No.	 IS-65-G1-S1	 IS-65-G1-03
10-30 Vdc	PNP NO	3 wires	order No.	95B066060	95B064740
	PNP		order No.	IS-65-G2-S1	IS-65-G2-03
10-30 Vdc	NC	3 wires	order No.	95B066100	95B064780
	NPN			IS-65-G3-S1	IS-65-G3-03
10-30 Vdc	NO	3 wires	order No.	95B064980	958064660
	NPN			IS-65-G4-S1	IS-65-G4-03
10-30 Vdc	NC	3 wires	order No.	95B066020	95B064700
	PNP				
10-30 Vdc	NO-NC	4 wires	order No.		
	NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20. 250.1/		2/2			
20-250 Vac	NO	2/3wires	order No.		
40.00.14-	Analog	2			
10-30 Vdc	0-20 mA	3 wires	order No.		
		2			
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%
Hysteresis				< 10%	< 10%
Max. Output Curre	nt			200 mA	200 mA
Min. Output Curre					
Residual Current				< 10 mA	< 10 mA
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow
Switching Frequer	וכע			500 Hz	500 Hz
Start Up Delay				< 75 ms	< 75 ms
Repeatability				< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
Cable Length					2 m
Cable Section					3 x 0,14 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP

40 g

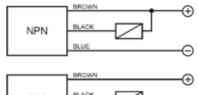
Tightening torque Weight - Cable Output

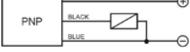
Weight - Connector Output



SHO	RT X 2
	I FLUSH
M8 conn	cable
3 mm	3 mm
IS-65-H1-S1	IS-65-H1-03
95B066220	95B064900
IS-65-H2-S1	IS-65-H2-03
95B066260	95B064940
IS-65-H3-S1	IS-65-H3-03
95B066140	95B064820
IS-65-H4-S1	IS-65-H4-03
95B066180	95B064860
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP67	IP67
	2 m
	3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass
LCP	LCP
	80 g
40 g	
0	

3 wires PNP or NPN



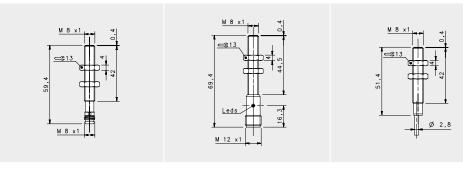


M8 3 pole



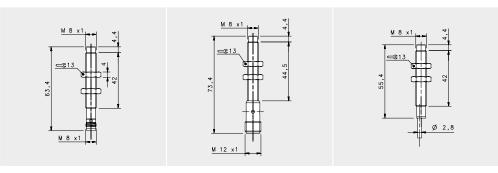
1071-0202-01	Con	facts num	bers
Available	1 HROWN	3 HALE	HACK
NPN/PNP	+	-	NO/NO





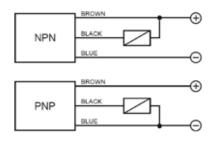
					STANDARD		
					FLUSH		
				M8 conn	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC	4 WIICS	order No.				
10-30 Vdc	PNP	3 wires		IS-08-A1-S1	IS-08-A1-S2	IS-08-A1-03	
10-30 Vac	NO	J WIIES	order No.	95B061141	95B061131	95B061121	
10-30 Vdc	PNP	3 wires		IS-08-A2-S1	IS-08-A2-S2	IS-08-A2-03	
10-30 Vuc	NC	2 WIES	order No.	95B061171	95B061161	95B061151	
10-30 Vdc	NPN	3 wires		IS-08-A3-S1	IS-08-A3-S2	IS-08-A3-03	
10-30 Vac	NO	5 WILES	5 WILES	order No.	95B061081	95B061071	95B061061
10 20 1/4-	Vdc NPN 3 wires	2		IS-08-A4-S1	IS-08-A4-S2	IS-08-A4-03	
10-30 Vdc		3 Wires	order No.	95B061111	95B061101	95B061091	
10-30 Vdc	PNP	4 wires					
10 50 140	NO-NC	4 WIICS	order No.				
10-30 Vdc	NPN	4 wires					
10-30 Vuc	NO-NC	4 wires	4 WIES	order No.			
10-30 Vdc	NO-NC	2 wires					
10-50 Vuc	NU-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	Juviros					
20-250 Vac7 Vuc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2					
20-250 Vac/ Vuc	NC	2 wires	order No.				
20. 250 Vac	NO	2/2					
20-250 Vac	NO	2/3 wires	order No.				
10.201/4-	Analog	Duringe					
10-30 Vdc	0-20 mA	3 wires	order No.				
		2					
NAMUR amplifier	NAMUR	2 wires	order No.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	STANDARD	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C1-S1	IS-08-C1-S2	IS-08-C1-03
95B061541	95B061531	95B061521
IS-08-C2-S1	IS-08-C2-S2	IS-08-C2-03
95B061571	95B061561	95B061551
IS-08-C3-S1	IS-08-C3-S2	IS-08-C3-03
95B061481	95B061471	95B066410
IS-08-C4-S1	IS-08-C4-S2	IS-08-C4-03
95B061511	95B061501	95B066450
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3x 0,14 mm ²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
	* see page 5 of the Inductive Sensors Catalog	
		00.8





M12 3 pole



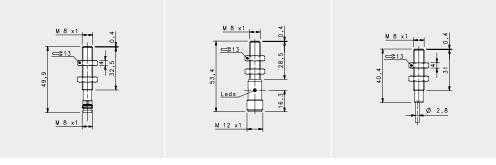
0	JULIACES	S CONFIGU	RATION	
Available		Contects	numbers	See and
AVAILADIA.	1	2	3	4
(NO or NC)	+		100	NOINC

M8 3 pole



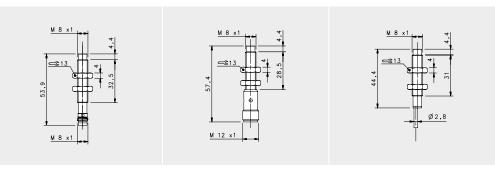
CONT	ACTS CON	FIGURAT	ION	
1275-2222-05	Contacts numbers			
Available	1 HROWN	3 HALE	4 BLACK	
NPN/PNP	+	-	NO/NC	





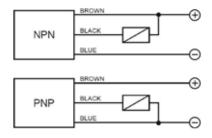
					SHORT		
					FLUSH		
				M8 conn	M12 conn	cable	
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm	
10-30 Vdc	PNP/NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	PNP	3 wires		IS-08-B1-S1	IS-08-B1-S2	IS-08-B1-03	
	NO	5 11105	order No.	95B066860	95B066590	95B061921	
10-30 Vdc	PNP	3 wires		IS-08-B2-S1	IS-08-B2-S2	IS-08-B2-03	
10-30 Vuc	NC	5 wires	order No.	95B066890	95B066620	95B061951	
10-30 Vdc	NPN	3 wires		IS-08-B3-S1	IS-08-B3-S2	IS-08-B3-03	
10-30 Vac	NO		NO 5 wires	order No.	95B066810	95B066530	95B061861
10-30 Vdc	NPN NC 3 wires			IS-08-B4-S1	IS-08-B4-S2	IS-08-B4-03	
10-30 Vac			order No.	95B066830	95B066560	95B061891	
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	2 wires				
10-50 Vac	NO-NC	2 WIICS	order No.				
20-250 Vac/Vdc	NO	2 wires					
20-250 Vac/ Vuc	NO	2 WIIES	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac/ Vuc	NC	2 WIIES	order No.				
20-250 Vac	NO	2/3 wires					
20-250 Vac	NO	Z/ J WILES	order No.				
10-30 Vdc	Analog	3 wires					
10-30 Vul	0-20 mA	5 WILES	order No.				
NAMUR amplifier	NAMUR	2 wires					
NAMOR ampliner	NAWUR	2 wires	order No.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



	SHORT	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-D1-S1	IS-08-D1-S2	IS-08-D1-03
95B066970	95B066700	95B062321
IS-08-D2-S1	IS-08-D2-S2	IS-08-D2-03
95B067000	95B066720	95B062351
IS-08-D3-S1	IS-08-D3-S2	IS-08-D3-03
95B066920	95B066650	958066430
IS-08-D4-S1	IS-08-D4-S2	IS-08-D4-03
95B066940	95B066670	95B062291
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200mA	200mA	200mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67
		2 m
		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP
	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalo
	-	80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



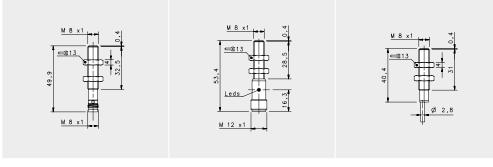
C(DNTACTS	S CONFIGU	RATION	
Available		Contacts	numbers	See. 15
Available .	1	2	3	4
(NO or NC)	+			NO/NC

M8 3 pole

1	•		
		<u>۱</u>	
• •):	
		/	

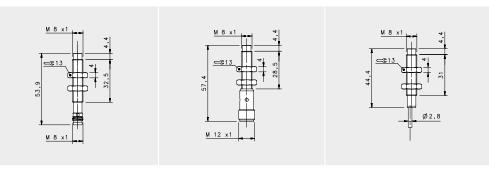
CONT	ACTS CON	FIGURAT	ION	
27.27.2.3	Contacts numbers			
Available	1 JHCWN	3 HULE	HACK	
NPN/PNP	+	-	NOINC	





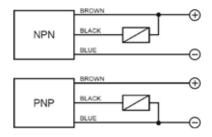
					SHORT X2		
					FLUSH		
				M8 conn	M12 conn	cable	
IOMINAL SWITCH	HING DISTAN	CE		2 mm	2 mm	2 mm	
10-30 Vdc	PNP/NPN	4 wires					
10-30 Vac	NO-NC	4 WIICS	order No.				
10-30 Vdc	PNP	3 wires		IS-08-G1-S1	IS-08-G1-S2	IS-08-G1-03	
10-30 vac	NO	JWIICS	order No.	95B066850	95B066580	95B066370	
10-30 Vdc	PNP	3 wires		IS-08-G2-S1	IS-08-G2-S2	IS-08-G2-03	
10-30 vac	NC	JWIICS	order No.	95B066880	95B066610	95B066390	
10-30 Vdc	NPN	3 wires		IS-08-G3-S1	IS-08-G3-S2	IS-08-G3-03	
10-30 Vuc	NO	5 WIIES	order No.	95B066800	95B066520	95B066330	
10-30 Vdc	NPN	3 wires		IS-08-G4-S1	IS-08-G4-S2	IS-08-G4-03	
10-50 Vul	NC	3 wires	5 WIES	order No.	95B063131	95B066550	95B066350
10-30 Vdc	PNP	4 wires					
	NO-NC		order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	NO-NC	NO-NC 2 wires	NC 2 wires				
10 50 140		2 111103	order No.				
20-250 Vac/Vdc	NO	2 wires					
20 250 140, 140		2 WIICS	order No.				
20-250 Vac/Vdc	NC	2 wires					
20 250 140, 140		2 Wiles	order No.				
20-250 Vac	NO	2/3 wires					
20 250 140		2/ 5 10/105	order No.				
10-30 Vdc	Analog	3 wires					
	0-20 mA	5 WIICS	order No.				
NAMUR amplifier	NAMUR	2 wires					
		2 WIICS	order No.				

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%
Max. Output Current	200mA	200mA	200mA
Min. Output Current			
Residual Current	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz	500 Hz
Start Up Delay	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67
Cable Length			2 m
Cable Section			3 x 0,14 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			80 g
Weight - Connector Output	35g	55g	



80 g	M8 conn M12 conn cable 3 mm 3 mm 3 mm 15-08-H1-51 15-08-H1-52 15-08-H1-03 95006690 95006690 95006690 15-08-H2-51 15-08-H2-52 15-08-H2-03 95006690 95006640 95006640 950066910 950066640 95006640 15-08-H2-51 15-08-H3-52 15-08-H3-03 95006910 950066640 95006640 950069251 95006640 95006640 15-08-H3-52 15-08-H3-52 15-08-H3-03 9500693251 95006640 95006640 15-08-H4-51 15-08-H4-52 15-08-H3-03 950063251 95006640 95006640 15-08-H4-51 15-08-H4-52 15-08-H3-03 16-10 1		SHORT X2	
3 mm3 mm3 mm	3 mm 3 mm 3 mm		NON FLUSH	
S-0eH1-51 IS-0eH1-52 IS-0eH1-53 95B066960 95B06690 95B06690 IS-0eH2-51 IS-0eH2-52 IS-0eH2-03 95B066990 95B06500 95B06620 IS-0eH3-51 IS-0eH4-52 IS-0eH3-03 95B066910 95B0650 95B06620 IS-0eH4-51 IS-0eH4-52 IS-0eH4-03 95B066251 95B063241 95B06660 95B066251 95B063241 95B06660	I	M8 conn	M12 conn	cable
IS-0B-H1-51 IS-0B-H1-52 IS-0B-H1-03 IS-0B-H2-51 IS-0B-H2-52 IS-0B-H2-03 IS-0B-H2-51 IS-0B-H2-52 IS-0B-H2-03 IS-0B-H3-51 IS-0B-H3-52 IS-0B-H3-53 IS-0B-H3-51 IS-0B-H3-52 IS-0B-H3-53 IS-0B-H3-51 IS-0B-H4-51 IS-0B-H3-52 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H3-53 IS-0B-H4-51 IS-0B-H3-52 IS-0B-H3-53 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H4-53 IS-0B-H4-51 IS-0	IS-08-H1-51 IS-08-H1-52 IS-08-H1-03 IS-08-H2-51 IS-08-H2-52 IS-08-H2-03 IS-08-H2-51 IS-08-H2-52 IS-08-H2-03 IS-08-H2-51 IS-08-H3-52 IS-08-H3-03 IS-08-H2-51 IS-08-H3-52 IS-08-H3-03 IS-08-H2-51 IS-08-H4-52 IS-08-H4-03 IS-08-H2-51 IS-08-H4-52 IS-08-H4-03 IS-08-H2-51 IS-08-H4-52 IS-08-H4-03 IS-08-H4-51 IS-08-H4-52 IS-08-H4-03 IS-08-H4-51 IS-08-H4-52 IS-08-H4-03 IS-08-H4-51 IS-08-H4-52 IS-08-H4-03 IS-08-H4-52 IS-08-H4-03 IS-08-H4-03 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-0	3 mm	3 mm	3 mm
IS-0B-H1-51 IS-0B-H1-52 IS-0B-H1-03 IS-0B-H2-51 IS-0B-H2-52 IS-0B-H2-03 IS-0B-H2-51 IS-0B-H2-52 IS-0B-H2-03 IS-0B-H3-51 IS-0B-H3-52 IS-0B-H3-53 IS-0B-H3-51 IS-0B-H3-52 IS-0B-H3-53 IS-0B-H3-51 IS-0B-H4-53 IS-0B-H3-52 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H4-03 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H4-03 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H4-03 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H4-03 IS-0B-H4-51 IS-0B-H4-52 IS-0B-H4-53 IS-0B-H4-51 I	15-08-H1-51 15-08-H1-52 15-08-H1-03 358066600 3590066800 359006680 15-08-H2-51 15-08-H2-52 15-08-H2-03 958066900 958066301 95806680 15-08-H2-51 15-08-H3-52 15-08-H3-03 958066910 95806624 95806640 15-08-H4-51 15-08-H4-52 15-08-H4-03 958063251 958063241 95806640			
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IS-08-H2-51 IS-08-H2-52 IS-08-H2-63 SB056990 95005301 95005600 IS-08-H3-51 IS-08-H3-52 IS-08-H4-33 SB056910 950056620 95005620 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 SB0563251 950053241 95005640 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 SB0563251 950053241 95005640 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 SB0563251 950053241 9500540 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 IS-08-H4-51 IS-08-H4-52 IS-08-H4-33 IS-08-H4-51 IS-08-H4-52 IS-08-H4-53 IS-08-H4-51 IS-08-H4-52 IS-08-H4-53 IS-08-H4-51 IS-08-H4-53 IS-08-H4-53 IS-08-H2-51 IS-08-H4-53 IS-08-H4-53 IS-08-H4-51 IS-08-H4-53	IS-08-H2-51 IS-08-H2-52 IS-08-H2-63 SB0066900 SB0066301 SB0066400 IS-08-H3-51 IS-08-H3-52 IS-08-H4-03 SB006910 SB0066201 SB0066400 IS-08-H4-51 IS-08-H4-52 IS-08-H4-03 SB006910 SB0066221 SB0066400 IS-08-H4-51 IS-08-H4-52 IS-08-H4-03 SB006910 IS-08-H4-52 IS-08-H4-03 IS-08-H4-52 IS-08-H4-52 IS-08-H4-03 IS-08-H4-52 IS-08-H4-52 IS-08-H4-03 IS-08-H4-52 IS-08-H4-52 IS-08-H4-03 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-52 IS-08-H4-53 IS-08-H4-52 IS-08-H4-52 IS-08-H4-53 IS-08-H4-52 IS-08-H4-52 <td></td> <td></td> <td></td>			
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< 10%	< 10%			
< 10%	< 10%	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
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< 10 mA	< 10 mA	< 10%	< 10%	< 10%
< 10 mA	< 10 mA	200mA	200mA	200mA
< 1,2 V (I=100mA)< 1,2 V (I=100mA)< 1,2 V (I=100mA)YellowYellowYellow500 Hz500 Hz500 Hz< 75 ms	< 1,2 V (I=100mA)			
< 1,2 V (I=100mA)< 1,2 V (I=100mA)< 1,2 V (I=100mA)YellowYellowYellow500 Hz500 Hz500 Hz< 75 ms	< 1,2 V (I=100mA)	< 10 mA	< 10 mA	< 10 mA
YellowYellowYellow500 Hz500 Hz500 Hz< 75 ms	YellowYellowYellow500 Hz500 Hz500 Hz500 Hz500 Hz500 Hz<75 ms			
500 Hz500 Hz500 Hz< 75 ms	500 Hz500 Hz500 Hz< 75 ms			
< 75 ms< 75 ms< 75 ms< 3%	< 75 ms< 75 ms< 75 ms< 3%			
< 3%< 3%< 3%Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25+60°C)(-25+60°C)(-25+70°C)IP67IP67IP672 m3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPsee page 5 of the Inductive Sensors Catalog* see page 5 of the Inductive Sensors Catalog80 g	< 3%< 3%< 3%Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25+60 °C)(-25+60 °C)(-25+70 °C)(P67(P67P672 m2 m3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCP80 g			
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2 m 3 x 0,14 mm² Nickel-plated brass Nickel-plated brass LCP LCP see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog 80 g	2 m 3 x 0,14 mm² Nickel-plated brass Nickel-plated brass LCP LCP see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog 80 g			
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LCP LCP LCP LCP LCP See page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog 80 g	LCP LCP LCP LCP See page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog 80 g	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
80 g	80 g			LCP
		see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	
IL a EF-	gcc gcc	25~	EE-	

3 wires PNP or NPN



M12 3 pole



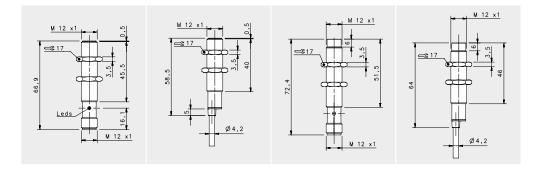
Available	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		1000	NO/NC	

M8 3 pole



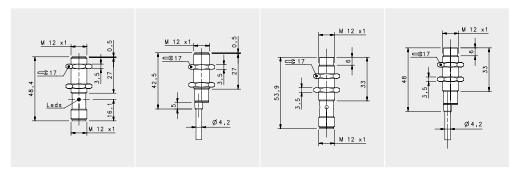
CONT	ACTS CON	FIGURAT	ION	
27.222.0	Contacts numbers			
Available	1 HOWN	3 HALE	HACK	
NPN/PNP	+	-	NO/NC	



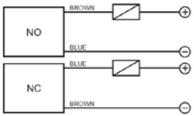


					STAN	DARD		
				FLUS	н	NON FLUSH		
			_	M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm	4 mm	4 mm	
10-30 Vdc	PNP/NPN	(IS-12-A0-S2	IS-12-A0-03	IS-12-C0-S2	IS-12-C0-03	
10-30 Vac	NO-NC	4 WIES	NC 4 wires	order No.	95B064060	95B064030	95B064080	95B064040
10.001/4-	PNP	2		IS-12-A1-S2	IS-12-A1-03	IS-12-C1-S2	IS-12-C1-03	
10-30 Vdc	NO	3 wires	order No.	95B061251	95B061241	95B061651	95B061641	
40.2014-	PNP	<u> </u>		IS-12-A2-S2	IS-12-A2-03	IS-12-C2-S2	IS-12-C2-03	
10-30 Vdc	NC	3 wires	order No.	95B061281	95B061271	95B061681	95B061671	
40.2014-	NPN	2		IS-12-A3-S2	IS-12-A3-03	IS-12-C3-S2	IS-12-C3-03	
	NO ^{3 wir}	3 wires	order No.	95B061191	95B061181	95B061591	95B061581	
	NPN	3 wires		IS-12-A4-S2	IS-12-A4-03	IS-12-C4-S2	IS-12-C4-03	
10-30 Vdc	NC		order No.	95B061221	95B061211	95B061621	95B061611	
10.0014	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
	NPN							
10-30 Vdc	NO-NC 4 wires	NO-NC	order No.					
10.00141		. .		IS-12-A9-S2	IS-12-A9-03	IS-12-C9-S2	IS-12-C9-03	
10-30 Vdc	NO-NC	2 wires	order No.	95B063931	95B064100	95B064140	95B064110	
		- ·						
20-250 Vac/Vdc	NO	2 wires	order No.					
	NC	2						
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3wires						
20-250 Vac	NU	2/3 WIRES	order No.					
10-30 Vdc	Analog	Zwiroc						
10-50 VUC	0-20 mA	3 wires	order No.					
		2						
NAMUR amplifier	NAMUR	2 wires	order No.					

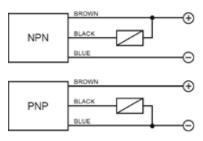
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)			
Min. Output Current	> 1,6 mA (2wires)			
Residual Current	< 10mA; < 1,6 mA (2wires)			
Voltage Drop	< 1,8V; < 6,5 V (2wires)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)			
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		110 g		110 g
Weight - Connector Output	60 g		60 g	



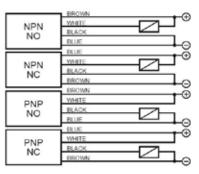
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

A	Contacts numbers			
Available	1	2	3	4
NO	+			
NC	<u></u>			

3 wires

ACCESSION OF	Contacts numbers			
Available	1	2	3	4
NO or NC)	+		-	NOINC

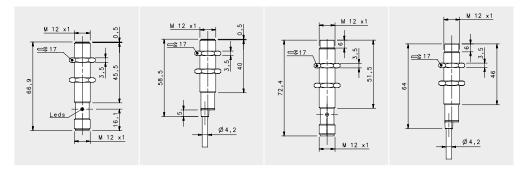
4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers				
Output	- 1	2	-3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+		NO	
PNP NC	-	+	+	NC	

FLUSH NON FLUSH M12 conn cable M12conn cable 2 mm 2 mm 4 mm 4 mm 5-12-152 15-12-10-3 15-12-01-32 15-12-01-33 980052051 980052041 980052041 980052041 980052041 15-12-28-25 15-12-28-33 15-12-28-23 15-12-28-23 15-12-28-23 980052051 980052051 980052051 980052051 980052051 15-12-28-52 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-52 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 980052011 980052011 980052011 980052011 15-12-28-03 9505-122-128-03 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 9505-122-15 980052011 980052011 980052011 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03 15-12-28-03				
M12 conn cable M12 conn cable 2 mm 2 mm 4 mm 4 mm 15 15 -12-81-52 15-12-81-03 15-12-01-52 15-12-01-03 950062061 950062061 950062071 950062081 950062071 950062081 950062071 950062081 950062071 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062011 950062011 95006201 95006201 95006201 95006201 1 1 1 1 1		SH	ORT	
2 mm 2 mm 4 mm 4 mm 1 1 1 1 1 15 12-21-52 15-12-21-52 15-12-21-52 15-12-20-33 950062051 950062041 950062041 950062041 950062041 15-12-82-52 15-12-20-33 15-12-20-52 15-12-20-33 950062081 950062071 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 950062081 10-1 1-1 1-1 1-1 1-1 10-1 1-1 1-1 1-1 1-1 11 1-1 1-1 1-1 1-1 11 1-1 1-1 1-1 1-1 11 1-1 1-1 1-1 1-1	FLU	JSH	NON F	LUSH
1 1 1 1 15-12-18-152 15-12-18-03 15-12-10-52 15-12-02-03 958052051 959052051 958052051 958052051 958052051 15-12-12-252 15-12-12-20 15-12-02-03 15-12-02-52 15-12-03-03 958052051 958052051 958052031 958052031 958052031 958052031 958052021 958052011 958052031 958052031 958052031 958052031 958052021 958052011 958052021 958052031 958052031 958052031 958052021 958052011 958052021 958052031 958052031 958052031 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M12 conn	cable	M12conn	cable
···· ···· ···· ···· IS-12-B1-52 IS-12-B1-03 IS-12-D1-52 IS-12-D1-03 958052b1 958052b1 958052b1 958052b1 958052b1 95805201 95805201 958052b1 958052b1 958052b1 95805201 958052b1 958052b1 958052b1 958052b1 95805221 958052b1 958052b1 958052b1 958052b1 958052021 958052b1 958052b1 958052b1 958052b1 958052021 958052b1 958052b21 958052b21 958052b21	2 mm	2 mm	4 mm	4 mm
IS-12-B1-52 IS-12-B1-63 IS-12-D1-52 IS-12-D1-03 990062051 990062051 990062051 990062071 990062051 990062071 IS-12-B2-52 IS-12-B2-03 IS-12-D2-52 IS-12-D3-03 990062271 IS-12-B3-52 IS-12-B3-03 IS-12-D3-52 IS-12-D3-03 990062291 990062291 IS-12-B4-52 IS-12-B4-03 IS-12-D4-52 IS-12-D4-03 990062211 IS-12-B4-52 IS-12-B4-03 IS-12-D4-52 IS-12-D4-03 990062011 990062211 990062211 990062211 IS-12-B4-52 IS-12-D4-03 IS-12-D4-52 IS-12-D4-03 99006201 990062211 990062211 990062211 990062211 IS-12-B4-52 IS-12-D4-03 IS-12-D4-03 990062211 990062211 IS-12-B4-52 IS-12-D4-03 IS-12-D4-03 990062211 990062211 IS-12-B4-52 IS-12-D4-03 IS-12-D4-03 IS-12-D4-03 IS-12-D4-03 IS-12-B4-52 IS-12-D4-03 IS-12-D4-03 IS-12-D4-03 IS-12-D4-03				
958062051 958062041 958062451 958062411 IS-12-82-52 IS-12-82-03 IS-12-02-32 IS-12-02-03 958062061 958062071 95806241 95806231 95806231 IS-12-83-52 IS-12-84-03 IS-12-03-52 IS-12-03-03 958062021 958062011 95806231 95806231 958062021 958062011 958062421 95806241 958062021 958062011 958062421 95806241 958062021 958062021 95806241 95806241				
IS-12-B2-52 IS-12-B2-03 IS-12-D2-52 IS-12-D2-03 950062061 950062071 950062481 950062471 IS-12-B3-52 IS-12-D3-53 IS-12-D3-52 IS-12-D3-33 950062061 950062071 950062281 IS50062281 IS-12-B4-52 IS-12-B4-03 IS-12-D4-03 IS-12-D4-03 950062021 95006201 95006241 95006241	IS-12-B1-S2	IS-12-B1-03	IS-12-D1-S2	IS-12-D1-03
958062081 958062071 958062431 958062471 15-12-83-52 15-12-83-03 15-12-03-52 15-12-03-03 958062021 958062011 95806221 958062011 958062021 958062011 958062411 958062411	95B062051	95B062041	95B062451	95B062441
IS-12-B3-52 IS-12-B3-03 IS-12-D3-52 IS-12-D3-03 950061991 950062391 950062391 950062321 IS-12-B4-52 IS-12-D4-52 IS-12-D4-52 IS-12-D4-32 950062021 950062011 950062411 950062411 -	IS-12-B2-S2	IS-12-B2-03	IS-12-D2-S2	IS-12-D2-03
958061991 958061991 958062391 958062391 958062391 958062391 958062391 958062021 958062011 958062421 958062421 958062411	95B062081	95B062071	95B062481	95B062471
IS-12-84-52 IS-12-84-03 IS-12-D4-52 IS-12-06-03 958062021 958062011 958062421 958062411	IS-12-B3-S2	IS-12-B3-03		IS-12-D3-03
95B062021 95B062011 95B062421 95B062411				
Image: Second	IS-12-B4-S2	IS-12-B4-03	IS-12-D4-S2	IS-12-D4-03
	95B062021	95B062011	95B062421	95B062411
<10 mA				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%				
<10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10% <10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) <10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) < 10%				
10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) < 10%				
< 10%< 10%< 10%< 10%< 10%				
$< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $< 10\%$ $200 mA$ $$ $$ $$ $$ $$ $< 10 mA$ $< 18 V (l=100mA)$ $< 18 V (l=100mA)$ $< 18 V (l=100mA)$ $< 18 V (l=100mA)$ YellowYellowYellowYellowYellow1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz $< 50 ms$ $< 50 ms$ $< 50 ms$ $< 50 ms$ $< 3\%$ $< 3\%$ $< 3\%$ $< 3\%$ Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads $(-25 +60 °C)$ $(-25 +70 °C)$ $(-25 +60 °C)$ $(-25 +70 °C)$ $1P67$ $1P67$ $1P67$ $1P67$ $1P67$ $1P67$ $1P67$ $3 \times 0.14 mm^2$ Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brass LCP LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog*see page 5 of the Inductive Sensors Catalog*see page 5 of the Inductive Sensors Catalog*see page 5 of the Inductive Sensors Catalog $$ 110 g $$ 110 g $$ <td>10-30 V/dc (-15/10%)</td> <td>10-30 V/dc (-15/10%)</td> <td>10-30 Vdc (-15/10%)</td> <td>10-30 Vdc (-15/10%)</td>	10-30 V/dc (-15/10%)	10-30 V/dc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10% < 10% < 10% < 10% 200 mA 200 mA 200 mA 200 mA < 10 mA				
200 mA 200 mA 200 mA 200 mA < 10 mA				
< 10 mA				
< 1,8 V (I=100mA)< 1,8 V (I=100mA)< 1,8 V (I=100mA)< 1,8 V (I=100mA)YellowYellowYellowYellowYellow1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz< 50 ms				
< 1,8 V (I=100mA)< 1,8 V (I=100mA)< 1,8 V (I=100mA)< 1,8 V (I=100mA)YellowYellowYellowYellowYellow1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz< 50 ms	< 10 mA	< 10 mA	< 10 mA	< 10 mA
YellowYellowYellowYellow1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz1000 Hz<50 ms				
< 50 ms< 50 ms< 50 ms< 50 ms< 3%				
< 3%< 3%< 3%< 3%Present (self-resetting)Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +60 °C)(-25 +70 °C)(-25 +60 °C)(-25 +70 °C)IP67IP67IP67IP67IP672 m2 m2 m2 m3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCPLCP* see page 5 of the Inductive Sensors Catalog* see page 5 of the	1000 Hz	1000 Hz	1000 Hz	1000 Hz
Present (self-resetting)Present (self-resetting)Present (self-resetting)Present (self-resetting)Against polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loads(-25 +60 °C)(-25 +70 °C)(-25 +60 °C)(-25 +70 °C)IP67IP67IP67IP67IP672 m2 m3 x 0,14 mm²3 x 0,14 mm²Nickel-plated brassNickel-plated brassNickel-plated brassNickel-plated brassLCPLCPLCPLCP* see page 5 of the Inductive Sensors Catalog* see page 5 of the Inductive Sensors Catalog	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Against polarity reversal inductive loads Against polarity reversal inductive loads Against polarity reversal inductive loads Against polarity reversal inductive loads (-25+60°C) (-25+70°C) (-25+60°C) (-25+70°C) IP67 IP67 IP67 IP67 2 m 3 x 0,14 mm² 3 x 0,14 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog	< 3%	< 3%	< 3%	< 3%
inductive loads inductive loads inductive loads inductive loads (-25 +60 °C) (-25 +70 °C) (-25 +70 °C) (-25 +70 °C) IP67 IP67 IP67 IP67 IP67 2 m 2 m Mickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog * 110 g	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
inductive loads inductive loads inductive loads inductive loads (-25 +60 °C) (-25 +70 °C) (-25 +70 °C) (-25 +70 °C) IP67 IP67 IP67 IP67 IP67 2 m 2 m Mickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog * 110 g	Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
IP67 IP67 IP67 IP67 2 m 2 m 2 m 3 x 0,14 mm² 2 m Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP * see page 5 of the Inductive Sensors Catalog	inductive loads			
2 m 2 m 3 x 0,14 mm² 3 x 0,14 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP * see page 5 of the Inductive Sensors Catalog	(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
3 x 0,14 mm² 3 x 0,14 mm² Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP * see page 5 of the Inductive Sensors Catalog 110 g 110 g	IP67	IP67	IP67	IP67
Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog 110 g 110 g		2 m		2 m
LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog 110 g 110 g		3 x 0,14 mm²		3 x 0,14 mm²
LCP LCP LCP LCP * see page 5 of the Inductive Sensors Catalog 110 g 110 g	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Sensors Catalog Sensors Catalog Sensors Catalog Sensors Catalog 110 g 110 g		LCP		LCP
110 g 110 g				
	-		U	-
60 g 60 g				-
	ьо в		6U g	

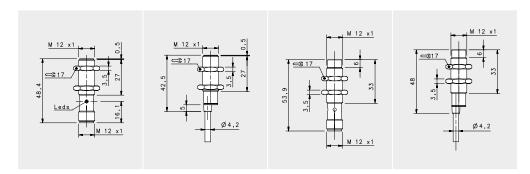






					STAND	ARD X2		
				FLU	JSH	NON FLUSH		
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IING DISTAN	CE		4 r	4 mm 8 mm		nm	
10-30 Vdc	PNP/NPN	4 wires		IS-12-E0-S2	IS-12-E0-03	IS-12-F0-S2	IS-12-F0-03	
10-30 Vac	NO-NC	4 WILES	order No.	95B067230	95B067190	95B067250	95B067210	
10-30 Vdc	PNP	3 wires		IS-12-E1-S2	IS-12-E1-03	IS-12-F1-S2	IS-12-F1-03	
	NO	JWIES	order No.	95B067030	95B067670	95B067020	95B067740	
10-30 Vdc	PNP	3 wires		IS-12-E2-S2	IS-12-E2-03	IS-12-F2-S2	IS-12-F2-03	
10-30 Vuc	NC	JWICJ	order No.	95B067640	95B067680	95B067710	95B067750	
10-30 Vdc	NPN	3 wires		IS-12-E3-S2	IS-12-E3-03	IS-12-F3-S2	IS-12-F3-03	
10-50 Vuc	NO	5 WIIES	order No.	95B067650	95B067690	95B067720	95B067760	
10-30 Vdc	NPN	Zwiroc		IS-12-E4-S2	IS-12-E4-03	IS-12-F4-S2	IS-12-F4-03	
10-30 Vac	NC	3 wires	order No.	95B067660	95B067700	95B067730	95B067770	
10. 20.1/4-	PNP	1						
10-30 Vdc	NO-NC	4 wires	order No.					
40.2014-	NPN							
10-30 Vdc	NO-NC	4 wires	order No.					
40.001/1		2 wires		IS-12-E9-S2	IS-12-E9-03	IS-12-F9-S2	IS-12-F9-03	
10-30 Vdc	NO-NC		2 Wires	order No.	95B067240	95B067200	95B067260	95B067220
		2 wires						
20-250 Vac/Vdc	NO		2 wires	0 2 wires	order No.			
		NC 2 wires						
20-250 Vac/Vdc	NC		order No.					
20-250 Vac	NO	2/3 wires	order No.					
	Analog							
10-30 Vdc	0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	order No.					
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Currei	nt			100 mA	100 mA	100 mA	100 mA	
Min. Output Curre								
Residual Current				< 10 mA	< 10 mA	< 10 mA	< 10 mA	
Voltage Drop				< 1,2 V (I=100mA)				
Operation Led				Yellow	Yellow	Yellow	Yellow	
Switching Frequer	ירא			500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	
Start Up Delay				< 75 ms	< 75 ms	< 75 ms	< 75 ms	
Repeatability				< 3%	< 3%	< 3%	< 3%	

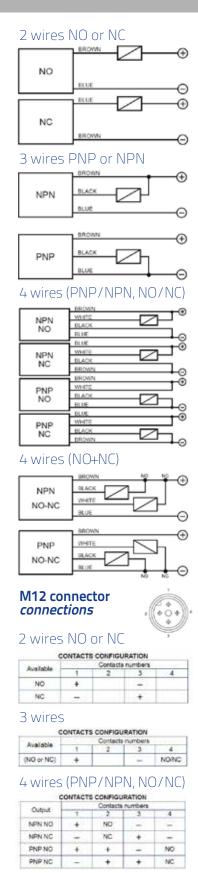
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	100 mA	100 mA	100 mA	100 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	500 Hz/200 Hz (2 wires NO-NC)	500 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC)	400 Hz/200 Hz (2 wires NO-NC
Start Up Delay	< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output				
Weight - Connector Output	60 g	60 g	60 g	60 g



	SHO	RT X2	
FLI	JSH	NON F	FLUSH
M12 con	cable	M12 conn	cable
4 mm	4 mm	8 mm	8 mm
IS-12-G1-S2	IS-12-G1-03	IS-12-H1-S2	IS-12-H1-03
95B063371	95B063361	95B063451	95B063441
IS-12-G2-S2	IS-12-G2-03	IS-12-H2-S2	IS-12-H2-03
95B063391	95B063381	95B063471	95B063461
IS-12-G3-S2	IS-12-G3-03	IS-12-H3-S2	IS-12-H3-03
95B063331	95B063321	95B063411	95B063401
IS-12-G4-S2	IS-12-G4-03	IS-12-H4-S2	IS-12-H4-03
95B063351	95B063341	95B063431	95B063421
IS-12-G5-S2	IS-12-G5-03	IS-12-H5-S2	IS-12-H5-03
95B062691	95B062681	95B062771	95B062761
IS-12-G6-S2	IS-12-G6-03	IS-12-H6-S2	IS-12-H6-03
95B062671	95B062661	95B062751	95B062741
			40 2014-145 (40%)
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
00 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NC)	500 Hz/200 Hz (4 wires NO-NO
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Ministrates 11		Michael and a 11	
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP * see page 5 of the Inductive Sensors Catalog	LCP * see page 5 of the Inductive Sensors Catalog	LCP * see page 5 of the Inductive Sensors Catalog	LCP * see page 5 of the Inductive Sensors Catalog
	110 g		110 g
60 g		60 g	-

60 g

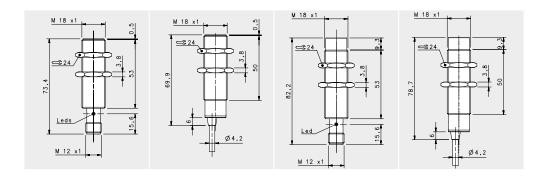
60 g





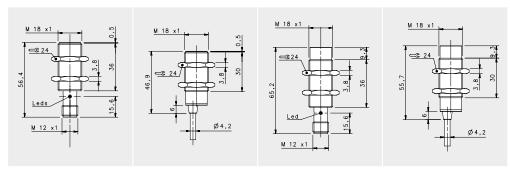
Australia	Contacts numbers			
Available	. 1	2	3	4
(NO + NC)	+	NC		NO



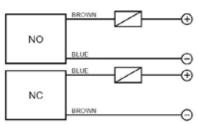


				STANDARD			
				FLUS	5H	NON FL	USH
			_	M12 conn	cable	M12 conn	cable
IOMINAL SWITCH	ING DISTANO	Œ		5 mm	5 mm	8 mm	8 mm
10-30 Vdc	PNP/NPN	4 wires		IS-18-A0-S2	IS-18-A0-03	IS-18-C0-S2	IS-18-C0-03
10-30 Vuc	NO-NC	4 WILES	order No.	95B064260	95B064230	95B064280	95B064240
10-30 Vdc	PNP	2		IS-18-A1-S2	IS-18-A1-03	IS-18-C1-S2	IS-18-C1-03
10-30 Vac	NO	3 wires	order No.	95B061351	95B061341	95B061751	95B061741
10.201/4-	PNP	2		IS-18-A2-S2	IS-18-A2-03	IS-18-C2-S2	IS-18-C2-03
10-30 Vdc	NC	3 wires	order No.	95B061371	95B061361	95B061771	95B061761
10.001/1	NPN	<u> </u>		IS-18-A3-S2	IS-18-A3-03	IS-18-C3-S2	IS-18-C3-03
10-30 Vdc	NO	3 wires	order No.	95B061311	95B061301	95B061711	95B061701
	NPN			IS-18-A4-S2	IS-18-A4-03	IS-18-C4-S2	IS-18-C4-03
10-30 Vdc	NC	3 wires	order No.	95B061331	95B061321	95B061731	95B061721
10 20 1/4-	PNP	1					
10-30 Vdc	NO-NC	4 wires	order No.				
	NPN						
10-30 Vdc	NO-NC	4 wires	order No.				
		- ·		IS-18-A9-S2	S-18-A9-03	IS-18-C9-S2	IS-18-C9-03
10-30 Vdc	NO-NC	2 wires	order No.	95B063941	95B064300	95B064340	95B064310
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.				
	Analog						
10-30 Vdc	0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				

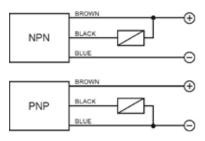
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current	> 1,6 mA (2wires ver.)			
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8V; < 6,5 V (2wires ver.)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NC)	1000 Hz/200 Hz (2 wires NO-NO
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		145g		145g
Weight - Connector Output	95g		95g	



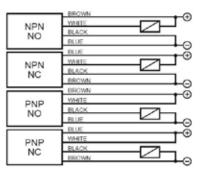
2	wires	NO	or	NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

	Contacts numbers			
Available	1	2	3	4
NO	+			
NC			+	

3 wires

Value and V	Contacts numbers				
Available	1	2	3	4	
(NO or NC)	+		-	NO/NO	

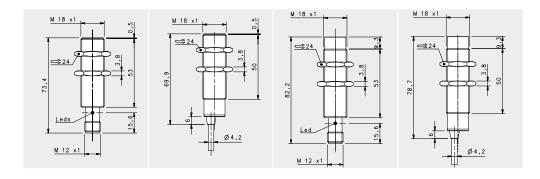
4 wires (PNP/NPN, NO/NC)

Output	Contacts numbers			
Output	1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC	-	+	+	NC

	CU	ORT	
FLU	JSH	NON F	LUSH
M12 conn	cable	M12 conn	cable
5 mm	5 mm	8 mm	8 mm
IS-18-B1-S2	IS-18-B1-03	IS-18-D1-S2	IS-18-D1-03
95B062151	95B062141	95B062551	95B062541
IS-18-B2-S2	IS-18-B2-03	IS-18-D2-S2	IS-18-D2-03
95B062171	95B062161	95B062571	95B062561
IS-18-B3-S2	IS-18-B3-03	IS-18-D3-S2	IS-18-D3-03
95B062111	95B062101	95B062511	95B062501
IS-18-B4-S2	IS-18-B4-03	IS-18-D4-S2	IS-18-D4-03
95B062131	95B062121	95B062531	95B062521
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal
inductive loads	inductive loads	inductive loads	inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	145g		145g
95g		95g	

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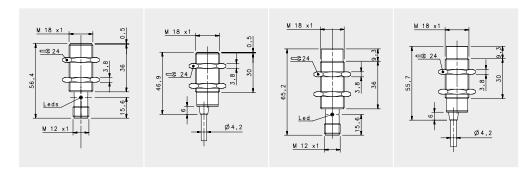




STANDARD X2

FLUSH NON FLUSH M12 conn cable M12 conn cable NOMINAL SWITCHING DISTANCE 8 mm 14 mm IS-18-E0-03 PNP/NPN IS-18-E0-S2 IS-18-F0-S2 IS-18-F0-03 10-30 Vdc 4 wires NO-NC order No. 95B067310 95B067270 95B067330 95B067290 PNP IS-18-E1-S2 IS-18-E1-03 IS-18-F1-S2 IS-18-F1-03 10-30 Vdc 3 wires NO order No. 95B067050 95B067810 95B067040 95B067880 PNP IS-18-E2-S2 IS-18-E2-03 IS-18-F2-S2 IS-18-F2-03 10-30 Vdc 3 wires NC 95B067820 95B067890 95B067780 95B067850 order No. IS-18-E3-S2 IS-18-E3-03 IS-18-F3-S2 IS-18-F3-03 NPN 10-30 Vdc 3 wires NO order No. 95B067790 95B067830 95B067860 95B067900 NPN IS-18-E4-S2 IS-18-E4-03 IS-18-F4-S2 IS-18-F4-03 10-30 Vdc 3 wires NC 95B067840 order No. 95B067800 95B067870 95B067910 PNP ------------10-30 Vdc 4 wires NO-NC order No. ------------NPN ------------10-30 Vdc 4 wires NO-NC --------------order No. IS-18-E9-S2 IS-18-E9-03 IS-18-F9-S2 IS-18-F9-03 10-30 Vdc NO-NC 2 wires order No. 95B067320 95B067280 95B067340 95B067300 -------------20-250 Vac/Vdc NO 2 wires ------order No. --------------------20-250 Vac/Vdc NC 2 wires order No. ---------------------------20-250 Vac NO 2/3 wires order No. ---------------Analog 0-20 mA -------------10-30 Vdc 3 wires ----------order No. -----------------NAMUR NAMUR amplifier 2 wires order No. ------

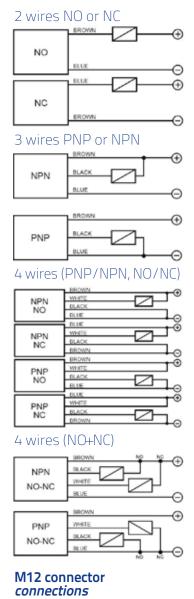
Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	400 Hz	400 Hz	100 Hz	100 Hz
Start Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output			145g	145g
Weight - Connector Output	95g	95g		



	SHO	RT X2	
FLI	JSH	NON F	FLUSH
M12 conn	cable	M12 conn	cable
8 mm	8 mm	14 mm	14 mm
IS-18-G1-S2	IS-18-G1-03	IS-18-H1-S2	IS-18-H1-03
95B063531	95B063521	95B063611	95B063601
IS-18-G2-S2	IS-18-G2-03	IS-18-H2-S2	IS-18-H2-03
95B063551	95B063541	95B063631	95B063621
IS-18-G3-S2	IS-18-G3-03	IS-18-H3-S2	IS-18-H3-03
95B063491	95B063061	95B063571	95B063561
IS-18-G4-S2	IS-18-G4-03	IS-18-H4-S2	IS-18-H4-03
95B063511	95B063501	95B063591	95B063581
IS-18-G5-S2	IS-18-G5-03	IS-18-H5-S2	IS-18-H5-03
95B062731	95B062721	95B062811	95B064220
IS-18-G6-S2	IS-18-G6-03	IS-18-H6-S2	IS-18-H6-03
95B062711	95B064200	95B062791	95B064210
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
> 1,6 mA (2wires ver.)			
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow
400 Hz/100 Hz (4 wires NO-NC)			
< 75 ms	< 75 ms	< 75 ms	< 75 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads			
(-25 +60 °C)	(-25 +70 °C)	(-25 +60 °C)	(-25 +70 °C)
IP67	IP67	IP67	(-23 +70 °C) IP67
	2 m		2 m
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	145g		145g

95g

95g



2 wires NO or NC

and and a second		Contacts numbers			
AVAILABOR	1	2	3	- 4	
NO	+		-		
NC.	-		+		

3 wires

c	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NOINC

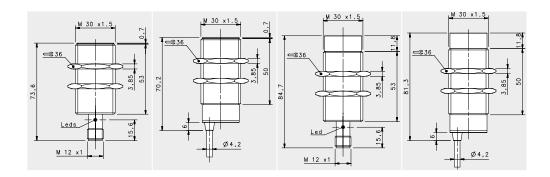
4 wires (PNP/NPN, NO/NC)

0.0.4	Contacts numbers			
Output	1	2		4
NPN NO	+	ND	-	-
NPN NC	-	NC	+	-
PNP NO	+	+	-	NO
PNP NC		+	+	NO

4 wires (NO+NC)

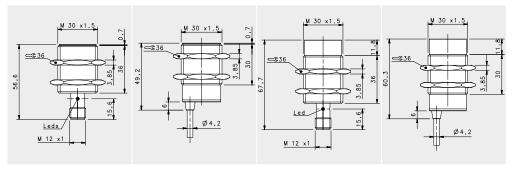
Academic		Contacta	numbera	
AVENACIE	1.4	2	3	- 4
(NO + NC)	+	NC.	-8	NO





				STANDARD				
				FLU	ISH	NON	LUSH	
				M12 conn	cable	M12 conn	cable	
NOMINAL SWITCH	IINAL SWITCHING DISTANCE		10 mm 10 mm		15 mm 15 mm			
10-30 Vdc	PNP/NPN NO-NC	4 wires	and an Na	IS-30-A0-S2	IS-30-A0-03	IS-30-C0-S2	IS-30-C0-03	
			order No.	95B064490 IS-30-A1-S2	95B064460 IS-30-A1-03	95B064510 IS-30-C1-S2	95B064470 IS-30-C1-03	
10-30 Vdc	PNP NO	3 wires	order No.	95B061431	95B061421	95B061831	95B061821	
	PNP			IS-30-A2-S2	IS-30-A2-03	IS-30-C2-S2	IS-30-C2-03	
10-30 Vdc	NC	3 wires	order No.	95B061451	95B061441	95B061851	95B061841	
10-30 Vdc	NPN	3 wires		IS-30-A3-S2	IS-30-A3-03	IS-30-C3-S2	IS-30-C3-03	
10-30 Vuc	NO	3 wires	order No.	95B061391	95B061381	95B061791	95B061781	
10-30 Vdc	NPN NC	3 wires	order No.	IS-30-A4-S2 95B061411	IS-30-A4-03 95B061401	IS-30-C4-S2 95B061811	IS-30-C4-03 95B061801	
	PNP							
10-30 Vdc	NO-NC	4 wires	order No.					
10-30 Vdc	NPN	4 wires						
	NO-NC		order No.					
10-30 Vdc	NO-NC	2 wires		IS-30-A9-S2	IS-30-A9-03	IS-30-C9-S2	IS-30-C9-03	
			order No.	95B064570	95B064530	95B064590	95B064550	
20-250 Vac/Vdc	NO	2 wires	audau Na					
			order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
			order No.					
20-250 Vac	NO	2/3 wires	order No.					
10-30 Vdc	Analog	3 wires						
	0-20 mA	2 WIIC3	order No.					
NAMUR amplifier	NAMUR	2 wires						
ampiner		2	order No.					

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)	200mA; 100 mA (2wires)
Min. Output Current	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)	> 1,6 mA (2wires)
Residual Current	< 1,6 mA	< 1,6 mA	< 1,6 mA	< 1,6 mA
/oltage Drop	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)	< 1,8V; < 6,5 V (2wires)
Operation Led	Yellow	Yellow	Yellow	Yellow
witching Frequency	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-NC)	300 Hz/250 Hz (2 wires NO-I
itart Up Delay	< 50 ms	< 50 ms	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
hort Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
able Length		2 m		2 m
Table Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
lousing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
ightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog
Neight - Cable Output		210 g		210 g
Weight - Connector Output	170 g		170 g	

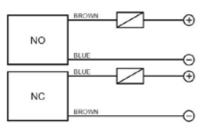


	CU/	ORT	
FLU	JSH	NON F	LUSH
M12 conn	cable	M12 conn	cable
10 mm	10 mm	15 mm	15 mm
IS-30-B1-S2	IS-30-B1-03	IS-30-D1-S2	IS-30-D1-03
95B062231	95B062221	95B062631	95B062621
IS-30-B2-S2	IS-30-B2-03	IS-30-D2-S2	IS-30-D2-03
95B062251	95B062241	95B062651	95B062641
IS-30-B3-S2	IS-30-B3-03	IS-30-D3-S2	IS-30-D3-03
95B062191	95B062181	95B062591	95B062581
IS-30-B4-S2	IS-30-B4-03	IS-30-D4-S2	IS-30-D4-03
95B062211	95B062201	95B062611	95B062601
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%	< 10%
< 10%	< 10%	< 10%	< 10%
200 mA	200 mA	200 mA	200 mA
200 MA	200 MA		200 MA
< 10 mA	< 10 mA	< 10 mA	< 10 mA
< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Yellow	Yellow	Yellow	Yellow
300 Hz	300 Hz	300 Hz	300 Hz
< 50 ms	< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67	IP67
	2 m		2 m
	3 x 0,14 mm²		3 x 0,14 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog 	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
	210 g		210 g

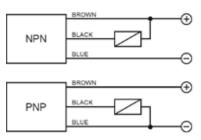
170 g

170 g

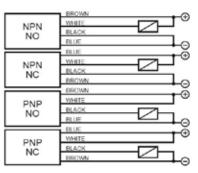
2 wires NO or NC



3 wires PNP or NPN



4 wires (PNP/NPN, NO/NC)



M12 connector - connections



2 wires NO or NC

A	Contacts numbers				
Available	1	2	3	4	
NO	+				
NC			+		

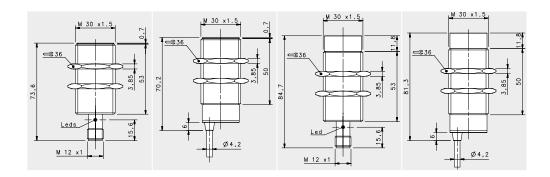
3 wires

California (Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		-	NO/NO

4 wires (PNP/NPN, NO/NC)

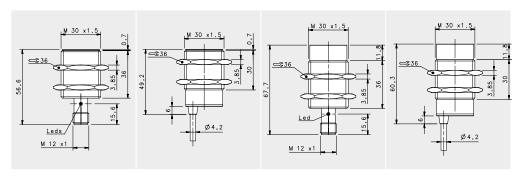
Output	Contacts numbers			
Output	- 1	2	-3	4
NPN NO	+	NO	-	-
NPN NC	-	NC	+	-
PNP NO	+	+		NO
PNP NC	-	+	+	NC



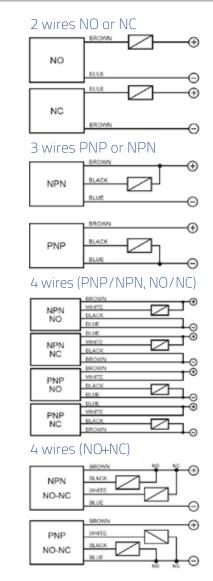


				STANDARD X2					
				FLU	SH	NON-F	LUSH		
				M12 conn	cable	M12 conn	cable		
NOMINAL SWITCH	ING DISTAN	Œ		15mm	15mm	20 mm	20 mm		
10.201/4-	PNP/NPN	(IS-30-E0-S2	IS-30-E0-03	IS-30-F0-S2	IS-30-F0-03		
10-30 Vdc	NO-NC	C 4 wires	NO-NC 4 wires	order No.	95B067390	95B067350	95B067410	95B067370	
10-30 Vdc	PNP	3 wires		IS-30-E1-S2	IS-30-E1-03	IS-30-F1-S2	IS-30-F1-03		
10-30 Vuc	NO	3 wires	order No.	95B067060	95B067950	95B067990	95B068030		
10-30 Vdc	PNP	3 wires		IS-30-E2-S2	IS-30-E2-03	IS-30-F2-S2	IS-30-F2-03		
10-50 Vuc	NC	5 WIIES	order No.	95B067920	95B067960	95B068000	95B068040		
10-30 Vdc	NPN	3 wires		IS-30-E3-S2	IS-30-E3-03	IS-30-F3-S2	IS-30-F3-03		
10-50 Vuc	NO	5 WIIES	order No.	95B067930	95B067970	95B068010	95B068050		
10-30 Vdc	NPN	3 wires		IS-30-E4-S2	IS-30-E4-03	IS-30-F4-S2	IS-30-F4-03		
10-50 Vul	NC	5 WILES	5 WIES	5 WIIES	order No.	95B067940	95B067980	95B068020	95B068060
10-30 Vdc	PNP	4 wires							
10-50 Vuc	NO-NC	4 wires	order No.						
10-30 Vdc	NPN	4 wires							
10-50 Vul	NO-NC	4 wires	order No.						
10-30 Vdc	NO-NC	2 wires		IS-30-E9-S2	IS-30-E9-03	IS-30-F9-S2	IS-30-F9-03		
10-50 Vuc	NU-NC	2 wires	order No.	95B067400	95B067360	95B067420	95B067380		
20-250 Vac/Vdc	NO	2 wires							
20-250 Vac7 Vuc	NO	2 wires	order No.						
20-250 Vac/Vdc	NC	2 wires							
20-250 Vac7 Vuc	NC	2 WIES	order No.						
20-250 Vac	NO	2/3 wires							
20-250 Vac	NO	Z/ J WILES	order No.						
10-30 Vdc	Analog	3 wires							
	0-20 mA	J WILES	order No.						
NAMUR amplifier	NAMUR	2 wires							
wainon ampliner	NAMUR	2 wiles	order No.						

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%	< 10%	< 10%
Hysteresis	< 10%	< 10%	< 10%	< 10%
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Min. Output Current				
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 6,5 V (I=100mA)			
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC)	200 Hz/100 Hz (2 wires NO-NC
Start Up Delay	< 75 ms	< 75 ms	< 75 ms	< 75 ms
Repeatability	< 3%	< 3%	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads			
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67	IP67	IP67
Cable Length				
Cable Section		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²		2 x 0,34 mm² 3 x 0,14 mm² 4 x 0,25 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face	LCP	LCP	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output				
Weight - Connector Output	170 g	170 g	170 g	170 g



SHORT X2						
FLU	JSH	NON F	LUSH			
M12 conn	cable	M12 conn	cable			
15mm	15mm	20 mm	20 mm			
IS-30-G1-S2	IS-30-G1-03	IS-30-H1-S2	IS-30-H1-03			
95B063691	95B063681	95B063771	95B063761			
IS-30-G2-S2	IS-30-G2-03	IS-30-H2-S2	IS-30-H2-03			
95B063711	95B063701	95B063791	95B063781			
IS-30-G3-S2	IS-30-G3-03	IS-30-H3-S2	IS-30-H3-03			
95B063651	95B063641	95B063731	95B063721			
IS-30-G4-S2	IS-30-G4-03	IS-30-H4-S2	IS-30-H4-03			
95B063671	95B063661	95B063751	95B063741			
IS-30-G5-S2	IS-30-G5-03	IS-30-H5-S2	IS-30-H5-03			
95B063831	95B063821	95B064450	95B064420			
IS-30-G6-S2	IS-30-G6-03	IS-30-H6-S2	IS-30-H6-03			
95B064430	95B064400	95B064440	95B064410			
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)			
< 10%	< 10%	< 10%	< 10%			
< 10%	< 10%	< 10%	< 10%			
200 mA	200 mA	200 mA	200 mA			
< 10 mA	< 10 mA	< 10 mA	< 10 mA			
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)			
Yellow	Yellow	Yellow	Yellow			
200 Hz	200 Hz	200 Hz	200 Hz			
< 75 ms	< 75 ms	< 75 ms	< 75 ms			
< 3%	< 3%	< 3%	< 3%			
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)			
Against polarity reversal	Against polarity reversal	Against polarity reversal	Against polarity reversal			
inductive loads	inductive loads	inductive loads	inductive loads			
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)			
IP67	IP67	IP67	IP67			
	2 m		2 m			
	3 x 0,14 mm² 4 x 0,25 mm²		3 x 0,14 mm² 4 x 0,25 mm²			
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass			
LCP	LCP	LCP	LCP			
see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductiv Sensors Catalog			
	210 g		210 g			
170 g		170 g				



M12 connector connections

2 wires NO or NC

and the second	Contacts numbers				
AV848018	1	2	3	4	
NO	+		-		
NC			+		

3 wires

0	ONTACTS	S CONFIGU	RATION	
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+	10000	+	NOINC

4 wires (PNP/NPN, NO/NC)

0.0.1	Contacts numbers					
Output	1	2		4		
NPN NO	+	ND	-	-		
NPN NC	-	NC	+	-		
FNP NO	+	+	-	NO		
PNP NC	- 1	+	+	NO		

4 wires (NO+NC)

August	Contacta numbera					
Available	1.4	2	3	4		
(NO + NC)	+	NC.	-8	NO		

STAINLESS STEEL

Stainless Steel housing M4, M5 POM active face - M6,5, M8, M12, M18, M30 LCP active face Standard length Short length Normal and double range operating distance Operating distance 0.8 ... 20 mm M4, M5, M6,5, M8, M12, M18, M30 Cable, M8 or M12 connector 3 wires PNP, NPN, NO, NC IP69K protection

III S CONTRACTOR STATE

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

Each Stainless Steel model is IP69K tested M12/18/30 models are IP69K certified



"M12/18/30 models are Diversey and ECOLAB tested"

1P69



*Excluded M4 and M5 models

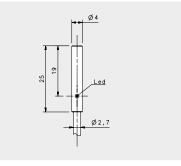




STAINLESS STEEL

STAINLESS STEEL M4





STANDARD FLUSH

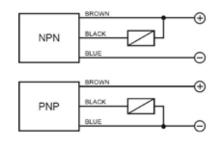
cable

NOMINAL SWITCHING DISTANCE

NOMINAL SWITCH	ING DISTAN	CE		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	IS-04-A1-03 95B061011
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	IS-04-A3-03 95B061001
10-30 Vdc	NPN NC	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
NAMUR amplifier	NAMUR	2 wires	order No.	

Nominal Voltage	10-30 Vdc (-15/10%)
Residual Ripple	< 10%
Hysteresis	< 15%
Max. Output Current	100 mA
Min. Output Current	
Residual Current	< 0,01 mA
Voltage Drop	< 1,5 V
Operation Led	Yellow
Switching Frequency	2000 Hz
Start Up Delay	
Repeatability	< 1%
Short Circuit Protection	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)
Protection Degree	IP69K
Cable Length	2 m (PUR)
Cable Section	3x 0,15 mm²
Housing Material	Stainless-Steel
Active face	POM
Tightening torque	
Weight - Cable Output	50 g
Weight - Connector Output	

3 wires PNP or NPN



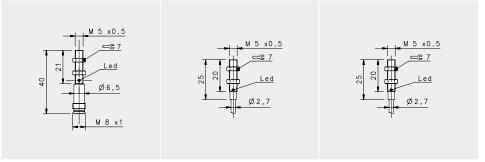
M8 3 pole



10.00 (Mar. 10)	Contacts numbers				
Available	1 HROWN	3 HULE	4 BLACK		
NPN/PNP	+	-	NO/NO		

STAINLESS STEEL M5



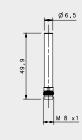


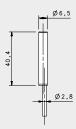
			STAN	STANDARD X2	
			FLL	ISH	FLUSH
		-	M8 conn	cable	cable
ING DISTAN	CE		0,8 mm	0,8 mm	1,5 mm
PNP/NPN NO-NC	4 wires	order No.			
PNP NO	3 wires	order No.	IS-05-A1-S1 95B061051	IS-05-A1-03 95B061041	
PNP NC	3 wires				
NPN	3 wires		IS-05-A3-S1	IS-05-A3-03	IS-05-E3-03 95B065400
NPN NC	3 wires		555667657	IS-05-A4-03	
PNP NO-NC	4 wires				
NPN NO-NC	4 wires				
NO-NC	2 wires				
NO	2 wires				
NC	2 wires				
NO	2/3 wires				
Analog 0-20 mA	3 wires				
NAMUR	2 wires	order No.			
	PNP/NPN NO-NC PNP NO NPN NO NPN NO-NC NO-NC NO-NC NO-NC NO-NC NO NO-NC	NO-NC4 wiresPNP NO3 wiresPNP NC3 wiresNPN NO3 wiresNPN NC3 wiresPNP NO-NC4 wiresNPN NO-NC2 wiresNO-NC2 wiresNO-NC2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO2 wiresNO3 wires	PNP/NPN NO-NC4 wiresorder No.PNP NO3 wiresorder No.PNP NC3 wiresorder No.PNP NC3 wiresorder No.NPN NO3 wiresorder No.NPN NO3 wiresorder No.NPN NO3 wiresorder No.NPN NO-NC4 wiresorder No.NPN NO-NC2 wiresorder No.NO-NC2 wiresorder No.NO2 wiresorder No.NC2 wiresorder No.NO2/3 wiresorder No.Analog O-20 mA3 wiresorder No.NAMIIB2 wiresorder No.	NG DISTANCE 08 conn NNC DISTANCE 0rder No. PNP/NPN NO-NC 4 wires order No. PNP NO 3 wires order No. 95B061051 PNP NC 3 wires order No. 95B061051 PNP NC 3 wires order No. NPN NO 3 wires order No. 95B061031 NPN NC 3 wires order No. 95B061031 NPN NC 3 wires order No. 95B061031 NPN NC 4 wires order No. NPN NO-NC 4 wires order No. NO-NC 2 wires order No. NO-NC 2 wires order No. NO 2 wires order No. NO 2/3 wires order No. NO 2/3 wires order No. NO 2/3 wires order No. NAMUR 2 wires order No.	NR DISTANCE 0,8 mm 0,8 mm PNP/NPN NO-NC 4 wires order No.

Nominal Voltage 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) 10-30 Vdc (-15/10%) Residual Ripple < 10% < 10% < 10% Hysteresis < 15% < 15% < 15% Max. Output Current 100 mA 100 mA 100 mA Min. Output Current Residual Current < 0,01 mA < 0,01 mA < 0,01 mA Voltage Drop < 1,5V < 1,5V < 1,5V Operation Led Yellow Yellow Yellow Switching Frequency 2000 Hz 2000 Hz 2000 Hz Start Up Delay Repetability < 1% Short Circuit Protection Present (self-resetting) Present (self-resetting) Present (self-resetting) Electric Protection Against polarity reversal inductive loads inductive loads inductive loads Temperature Limit [-25+70 °C] [-25+70 °C] [-25+70 °C] [-25+70 °C] Cable Section 2 m(PUR) 3x 0,15 mm³<				
Hysteresis < 15% < 15% < 15% Max. Output Current 100 mA 100 mA 100 mA Min. Output Current Residual Current < 0,01 mA	Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Max. Output Current 100 mA 100 mA 100 mA Min. Output Current Residual Current < 0,01 mA	Residual Ripple	< 10%	< 10%	< 10%
Min. Output CurrentResidual Current< 0,01 mA	Hysteresis	< 15%	< 15%	< 15%
Residual Current< 0,01 mA< 0,01 mA< 0,01 mAVoltage Drop< 1,5V	Max. Output Current	100 mA	100 mA	100 mA
Voltage Drop< 1,5V< 1,5V< 1,5VOperation LedYellowYellowYellowYellowSwitching Frequency2000 Hz2000 Hz2000 Hz2000 HzStart Up DelayRepeatability< 1%	Min. Output Current			
Operation LedYellowYellowYellowSwitching Frequency2000 Hz2000 Hz2000 HzStart Up DelayRepeatability <t1%< td=""><t1%< td="">Short Circuit ProtectionPresent (self-resetting)Present (self-resetting)Present (self-resetting)Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25+70 °C)(-25+70 °C)(-25+70 °C)Protection Degree01P69K1P69KCable Length3 x 0,15 mm²3 x 0,15 mm²Cable Section3 x 0,15 mm²3 x 0,15 mm²Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g</t1%<></t1%<>	Residual Current	< 0,01 mA	< 0,01 mA	< 0,01 mA
Switching Frequency2000 Hz2000 Hz2000 HzStart Up DelayRepeatability<1%	Voltage Drop	< 1,5V	< 1,5V	< 1,5V
Start Up DelayRepeatability<1%	Operation Led	Yellow	Yellow	Yellow
Repeatability< 1%< 1%Short Circuit ProtectionPresent (self-resetting)Present (self-resetting)Present (self-resetting)Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25+70 °C)(-25+70 °C)(-25+70 °C)Protection Degree01P69K1P69KCable Length2 m (PUR)2 m (PUR)Cable Section3x 0,15 mm²3x 0,15 mm²Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g	Switching Frequency	2000 Hz	2000 Hz	2000 Hz
Short Circuit ProtectionPresent (self-resetting)Present (self-resetting)Present (self-resetting)Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25+70 °C)(-25+70 °C)(-25+70 °C)Protection DegreeIP69KIP69KIP69KCable Length2 m (PUR)2 m (PUR)Cable Section3x 0,15 mm²3x 0,15 mm²Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g	Start Up Delay			
Electric ProtectionAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsAgainst polarity reversal inductive loadsTemperature Limit(-25+70 °C)(-25+70 °C)(-25+70 °C)Protection DegreeIP69KIP69KIP69KCable Length2 m (PUR)2 m (PUR)Cable Section3x 0,15 mm²3x 0,15 mm²Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g	Repeatability	< 1%	< 1%	
Electric Protectionof inductive loadsof inductive loadsTemperature Limit(-25 +70 °C)(-25 +70 °C)Protection DegreeIP69KIP69KCable Length2 m (PUR)Cable Section3x 0,15 mm²Housing MaterialStainless-SteelStainless-SteelActive facePOMPOMTightening torque1,5 Nm1,5 NmWeight - Cable Output25g25g25g	Short Circuit Protection	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Protection Degree IP69K IP69K IP69K Cable Length 2 m (PUR) 2 m (PUR) Cable Section 3x 0,15 mm² 3x 0,15 mm² Housing Material Stainless-Steel Stainless-Steel Stainless-Steel Active face POM POM POM Tightening torque 1,5 Nm 1,5 Nm 1,5 Nm Weight - Cable Output 25g 25g	Electric Protection			
Cable LengthCam (PUR)2 m (PUR)Cable Section3x 0,15 mm²3x 0,15 mm²Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g	Temperature Limit	(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Cable Section $3x 0,15 mm^2$ $3x 0,15 mm^2$ Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g	Protection Degree	IP69K	IP69K	IP69K
Housing MaterialStainless-SteelStainless-SteelStainless-SteelActive facePOMPOMPOMTightening torque1,5 Nm1,5 Nm1,5 NmWeight - Cable Output25g25g	Cable Length		2 m (PUR)	2 m (PUR)
Active face POM POM POM Tightening torque 1,5 Nm 1,5 Nm 1,5 Nm Weight - Cable Output 25g 25g	Cable Section		3x 0,15 mm²	3x 0,15 mm²
Tightening torque 1,5 Nm 1,5 Nm 1,5 Nm Weight - Cable Output 25g 25g	Housing Material	Stainless-Steel	Stainless-Steel	Stainless-Steel
Weight - Cable Output 25g 25g	Active face	POM	POM	POM
	Tightening torque	1,5 Nm	1,5 Nm	1,5 Nm
Weight - Connector Output 14g	Weight - Cable Output		25g	25g
	Weight - Connector Output	14g		

STAINLESS STEEL M6.5







SHORT STAINLESS STEEL

				FLL	JSH
				M8 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-65-M1-S1 95B066080	IS-65-M1-03 95B064760
10-30 Vdc	PNP NC	3 wires	order No.	IS-65-M2-S1 95B066120	IS-65-M2-03 95B064800
10-30 Vdc	NPN NO	3 wires	order No.	IS-65-M3-S1 95B066000	IS-65-M3-03 95B064680
10-30 Vdc	NPN NC	3 wires	order No.	IS-65-M4-S1 95B066040	IS-65-M4-03 95B064720
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%
Hysteresis				< 10%	< 10%
Max. Output Currer	nt			200 mA	200 mA

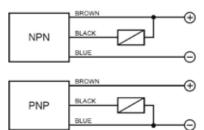
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		3x 0,14 mm²
Housing Material		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	Stainless-Steel LCP	Stainless-Steel LCP
-		
Active face	LCP	LCP



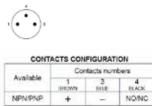
SHORT STAINLESS STEEL

NON FLUSH					
M8 conn	cable				
2 mm	2 mm				
IS-65-N1-S1	IS-65-N1-03				
95B066240	95B064920				
IS-65-N2-S1	IS-65-N2-03				
95B066280	95B064960				
IS-65-N3-S1	IS-65-N3-03				
95B066160	95B064840				
IS-65-N4-S1	IS-65-N4-03				
95B066200	95B064880				
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)				
< 10%	< 10%				
< 10%	< 10%				
200 mA	200 mA				
< 10 mA	< 10 mA				
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)				
Yellow	Yellow				
1000 Hz	1000 Hz				
< 50 ms	< 50 ms				
< 3%	< 3%				
Present (self-resetting)	Present (self-resetting)				
Against polarity reversal	Against polarity reversal				
inductive loads	inductive loads				
(-25 +70 °C)	(-25 +70 °C)				
IP69K	IP69K				
	3x 0,14 mm²				
Stainless-Steel	Stainless-Steel				
LCP	LCP				
	80 g				
40 g					

3 wires PNP or NPN



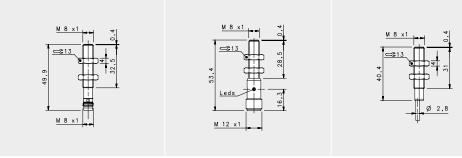
M8 3 pole



ODATALOGIC 37

STAINLESS STEEL M8

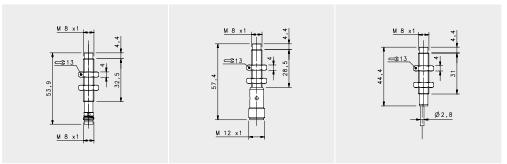




SHORT STAINLESS STEEL

					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		1,5 mm	1,5 mm	1,5 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
40.2014-	PNP	2	order No.	IS-08-M1-S1	IS-08-M1-S2	IS-08-M1-03
10-30 Vdc	NO	3 wires	order No.	95B066870	95B066600	95B066380
10-30 Vdc	PNP NC	3 wires	order No.	IS-08-M2-S1 95B066900	IS-08-M2-S2 95B066630	IS-08-M2-03 95B066600
40.001/1	NPN			IS-08-M3-S1	IS-08-M3-S2	IS-08-M3-03
10-30 Vdc	NO	3 wires	order No.	95B066820	95B066540	95B066340
10-30 Vdc	NPN NC	3 wires	order No.	IS-08-M4-S1 95B066840	IS-08-M4-S2 95B066570	IS-08-M4-03 95B066360
	PNP		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
10-30 Vdc	NPN	4 wires				
10-50 Vac	NO-NC	4 WITES	order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
			oraci No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog	3 wires				
10-30 Vuc	0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires				
		2 00105	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Curre	nt			200 mA	200 mA	200 mA
Min. Output Curre	nt					
Residual Current				< 10 mA	< 10 mA	< 10 mA
Voltage Drop				< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Operation Led				Yellow	Yellow	Yellow
Switching Freque	ncy			1000 Hz	1000 Hz	1000 Hz
Start Up Delay		< 50 ms	< 50 ms	< 50 ms		
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protectior	ı			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
Protection Degree				ІР69К	ІР69К	ІРб9К
Cable Length						
Cable Section						3x 0,14 mm²

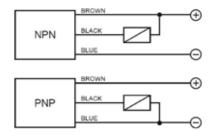
Housing Material Stainless-Steel Stainless-Steel Stainless-Steel LCP Active face LCP LCP * see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog Tightening torque Weight - Cable Output 80 g -------Weight - Connector Output 35g 55g ---



SHORT STAINLESS STEEL

	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-N1-S1	IS-08-N1-S2	IS-08-N1-03
958066980	95B066710	95B066490
IS-08-N2-S1	IS-08-N2-S2	IS-08-N2-03
95B067010	95B066730	95B066510
IS-08-N3-S1	IS-08-N3-S2	IS-08-N3-03
95B066930	95B066660	95B066440
IS-08-N4-S1	IS-08-N4-S2	IS-08-N4-03
958066950	95B066680	95B066470
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
200 mA 	200 mA 	200 mA
< 10 mA	< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow	Yellow
1000 Hz	1000 Hz	1000 Hz
< 50 ms	< 50 ms	< 50 ms
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)	(-25 +70 °C)
ІРб9К	IP69K	IP69K
		3x 0,14 mm²
Stainless-Steel	Stainless-Steel	Stainless-Steel
LCP	LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
		80 g
35g	55g	

3 wires PNP or NPN



M12 3 pole



Sarchaser -		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+			NOINC

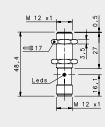
M8 3 pole

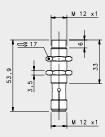


CONT	ACTS CON	FIGURAT	ION
Available	Con	facts nur	bers
	1 BROWN	3 HULE	4 BLACK
NPN/PNP	+	-	NO/NO

STAINLESS STEEL M12

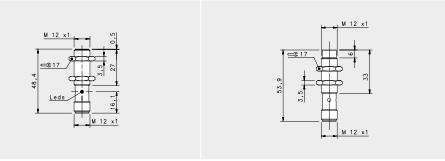






SHORT STAINLESS STEEL NON FLUSH FLUSH M12 conn M12 conn NOMINAL SWITCHING DISTANCE 4 mm 2 mm PNP/NPN ------10-30 Vdc 4 wires NO-NC order No. --------PNP IS-12-M1-S2 IS-12-N1-S2 10-30 Vdc 3 wires NO order No. 95B060240 95B060280 PNP IS-12-M2-S2 IS-12-N2-S2 10-30 Vdc 3 wires NC order No. 95B060250 95B060290 NPN IS-12-M3-S2 IS-12-N3-S2 10-30 Vdc 3 wires NO 95B060260 95B060300 order No. NPN IS-12-M4-S2 IS-12-N4-S2 10-30 Vdc 3 wires NC 95B060270 95B060310 order No. PNP ------10-30 Vdc 4 wires NO-NC order No. ------NPN ------10-30 Vdc 4 wires NO-NC ------order No. ------10-30 Vdc NO-NC 2 wires order No. -------------20-250 Vac/Vdc NO 2 wires order No. ------------20-250 Vac/Vdc NC 2 wires order No. -------------20-250 Vac NO 2/3 wires order No. -------Analog 0-20 mA -------10-30 Vdc 3 wires -------order No. ------NAMUR NAMUR amplifier 2 wires order No. ---

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		
Weight - Connector Output	60 g	60 g



	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
4 mm	8 mm
IS-12-01-52	IS-12-P1-S2
95B060000	95B060040
IS-12-02-52	IS-12-P2-S2
95B060010	95B060050
IS-12-03-S2	IS-12-P3-S2
95B060020	95B060060
IS-12-04-52	IS-12-P4-S2
95B060030	95B060070
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
500 Hz	500 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69К
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog

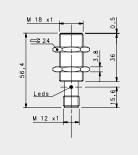
M12 3 pole

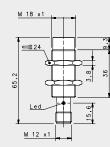


CC	ONTACTS	CONFIGU	RATION	
Carrientees -		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+	· · · · ·	220	NO/NO

STAINLESS STEEL M18



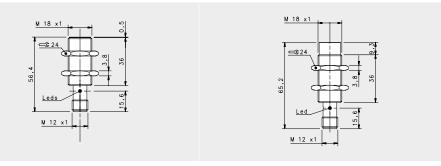




SHORT STAINLESS STEEL FLUSH NON FLUSH M12 conn M12 conn 5 mm 8 mm

NOMINAL SWITCH	ING DISTAN	CE		5 mm	8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.	IS-18-M1-52 95B060320	IS-18-N1-S2 95B060360
10-30 Vdc	PNP NC	3 wires	order No.	IS-18-M2-52 95B060330	IS-18-N2-S2 95B060370
10-30 Vdc	NPN NO	3 wires	order No.	IS-18-M3-52 95B060340	IS-18-N3-S2 95B060380
10-30 Vdc	NPN NC	3 wires	order No.	IS-18-M4-52 95B060350	IS-18-N4-S2 95B060390
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		

Nominal Voltage	10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
Residual Ripple	< 10%	< 10%
Hysteresis	< 10%	< 10%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	1000 Hz	1000 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		
Weight - Connector Output	95g	95g



SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
8 mm	14 mm
IS-18-01-52	IS-18-P1-S2
95B060080	95B060120
IS-18-02-S2	IS-18-P2-S2
95B060090	95B060130
IS-18-03-52	IS-18-P3-S2
95B060100	95B060140
IS-18-04-52	IS-18-P4-S2
95B060110	95B060150
10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)
< 10%	< 10%
< 10%	< 10%
200 mA	200 mA
< 10 mA	< 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
200 Hz	200 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
95g	95g

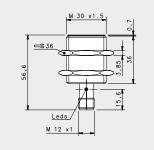
M12	3	DO	le
14112	_	PU	

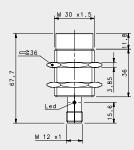


0	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
Available	1	2	3	4
(NO or NC)	+		123	NOINC

STAINLESS STEEL M30



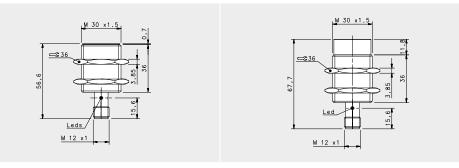




SHORT STAINLESS STEEL

				FLUSH	NON FLUSH	
				M12 conn	M12	
NOMINAL SWITCH	ING DISTAN	CE		10 mm	15 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 440	NO-NC	4 WIIES	order No.			
10-30 Vdc	PNP	3 wires		IS-30-M1-S2	IS-30-N1-S2	
10-30 440	NO	2 MILES	order No.	95B060400	95B060440	
10-30 Vdc	PNP	3 wires		IS-30-M2-S2	IS-30-N2-S2	
10-30 440	NC	2 MILES	order No.	95B060410	95B060450	
10-30 Vdc	NPN	3 wires		IS-30-M3-S2	IS-30-N3-S2	
10-30 440	NO	JWIES	order No.	95B060420	95B060460	
10-30 Vdc	NPN	3 wires		IS-30-M4-S2	IS-30-N4-S2	
10-50 vuc	NC	5 WIIES	order No.	95B060430	95B060470	
10-30 Vdc	PNP NO-NC	1 wiros				
10-50 Vuc		4 wires	order No.			
10-30 Vdc	NPN	4 wires	(wiroc			
10-50 Vuc	NO-NC 4		order No.			
10-30 Vdc	NO-NC	2 wires				
10-50 Vuc	NU-NC		order No.			
20-250 Vac/Vdc	NO	2 wires				
20-250 Vac/ Vuc	NO	2 WIIES	order No.			
20-250 Vac/Vdc	NC	2 wires				
20-230 Vac/ Vac	NC .	2 11123	order No.			
20-250 Vac	NO	2/3wires				
20-230 Vac	NO	2/ 5 101125	order No.			
10-30 Vdc	Analog	3 wires				
10-30 440	0-20 mA	JWIIES	order No.			
NAMUR amplifier	NAMUR	2 wires				
	NAMOR	2 WIES	order No.			
Nominal Voltage				10-30 Vdc (-15/10%)	10-30 Vdc (-15/10%)	
Residual Ripple			< 10%	< 10%		
Hysteresis				< 10%	< 10%	
Max. Output Curre	nt			200 mA	200 mA	
Min. Output Curre						
Residual Current				< 10 mA	< 10 mA	
Voltage Drop				< 1,8 V (I=100mA)	< 1,8 V (I=100mA)	

Min. Output Current		
Residual Current	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100mA)	< 1,8 V (I=100mA)
Operation Led	Yellow	Yellow
Switching Frequency	300 Hz	300 Hz
Start Up Delay	< 50 ms	< 50 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP69K	IP69K
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	LCP	LCP
Tightening torque	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Weight - Cable Output		
Weight - Connector Output	170 g	170 g



SHORT STAIN	LESS STEEL X2
FLUSH	NON FLUSH
M12 conn	M12 conn
15 mm	20 mm
IS-30-01-52	IS-30-P1-S2
95B060160	95B060200
IS-30-02-S2	IS-30-P2-S2
958060170	95B060210
IS-30-03-S2	IS-30-P3-S2
95B060180	95B060220
IS-30-04-S2	IS-30-P4-S2
95B060190	95B060230
10 2014-1 15 (10%)	10-30 Vdc (-15/10%)
10-30 Vdc (-15/10%)	
< 10% < 10%	< 10% < 10%
200 mA 	200 mA
<pre> < 10 mA</pre>	 < 10 mA
< 1,2 V (I=100mA)	< 1,2 V (I=100mA)
Yellow	Yellow
100 Hz	100 Hz
< 75 ms	< 75 ms
< 3%	< 3%
Present (self-resetting)	Present (self-resetting)
Against polarity reversal	Against polarity reversal
inductive loads	inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP69K	IP69K
Stainless-Steel	Stainless-Steel
LCP	LCP
* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
170 g	170 g

M12 3 pole



0	ONTACTS	CONFIGU	RATION	
Available		Contacts	numbers	
Available .	1	2	3	4
(NO or NC)	+		20	NOINC

ΦΟΛΤΑLOGIC 45

METAL FACE

Stainless Steel housing Stainless Steel AISI 303 active face Standard length 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR						
	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS		
Average red. Fact.	0,45	0,85	0,4	0,5		

III IS SPECIAL NEW YEAR'S IN

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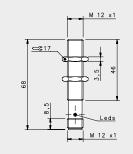


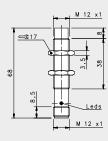
METAL FACE

ODATALOGIC 47

METAL FACE M12





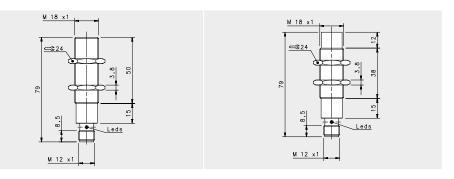


				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IING DISTAN	CE		2 mm	4 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.	IS-12-11-S2 95B065340	IS-12-L1-S2 95B063871	
10-30 Vdc	PNP NC	3 wires				
10-30 Vdc	NPN	3 wires	order No.			
	NO NPN	5 111125	order No.			
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires				
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac/ Vac	NC	2 WIES	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current		
Residual Current	< 0,01 mA	< 0,01 mA
Voltage Drop	< 1,5 V (I=100mA)	< 1,5 V (I=100mA)
Operation Led	Present	Present
Switching Frequency	2000 Hz	1000 Hz
Start Up Delay		
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	Stainless Steel AISI 303	Stainless Steel AISI 303
Tightening torque	10Nm	10Nm
Weight - Cable Output		
Weight - Connector Output	30 g	30 g

METAL FACE M18





				METAL FACE		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	HING DISTAN	CE		5 mm	8 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires		IS-18-I1-S2	IS-18-L1-S2	
10-30 vuc	NO	5 WIES	order No.	95B065350	95B063881	
10-30 Vdc	PNP	3 wires				
10-20 100	NC	JWIES	order No.			
10-30 Vdc	NPN	3 wires				
10 30 140	NO	5 WIICS	order No.			
10-30 Vdc	NPN	3 wires				
10 30 140	NC	5 WIICS	order No.			
10-30 Vdc	PNP	4 wires				
10 30 140	NO-NC	4 WIICS	order No.			
10-30 Vdc	NPN	4 wires				
10 30 140	NO-NC	4 WIIES	order No.			
10-30 Vdc	NO-NC	2 wires				
10-20 400	NO-NC	2 WIIES	order No.			
20-250 Vac/Vdc	NO	2 wires				
20-230 Vac/ Vuc	NO	2 001165	order No.			
20-250 Vac/Vdc	NC	2 wires				
20 250 1407 140	NC .	2 001105	order No.			
20-250 Vac	NO	2/3 wires				
20 250 Vac	NO	2/ 5 10105	order No.			
10-30 Vdc	Analog	3 wires				
10 30 140	0-20 mA	5 WIICS	order No.			
NAMUR amplifier	NAMUR	2 wires				
NAMON ampliner	NAMOR	2 WIICS	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
0						
Residual Ripple				< 10% < 15%	< 10% < 15%	
Hysteresis	-			< 15% 200 mA		
Max. Output Current				200 mA > 1,6 mA	200 mA > 1,6 mA	
Min. Output Curre	201C					
Residual Current				< 0,01 mA < 1,5 V	< 0,01 mA < 1,5 V	
Voltage Drop						
Operation Led				Present	Present	
Switching Freque	псу			1000 Hz	500 Hz	
Start Up Delay						

Operation Led	Present	Present
Switching Frequency	1000 Hz	500 Hz
Start Up Delay		
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	Stainless Steel AISI 303	Stainless Steel AISI 303
Tightening torque	10Nm	10Nm
Weight - Cable Output		
Weight - Connector Output	95g	95g

WELD FIELD IMMUNE

Stainless Steel housing PTFE active face Standard length Operating distance 2 ... 8 mm M12, M18 M12 connector 3 wires PNP, NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,45	0,85	0,4	0,5

IIIII 5 200 Shuber Case 17



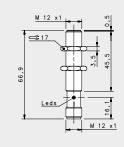


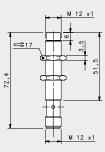
WELD FIELD IMMUNE

ODATALOGIC 51

WELD FIELD IMMUNE M12







Stainless-Steel

PTFE

10 Nm

23g

FIELD IMMUNE STAINLESS STEEL

				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	IING DISTAN	CE		2 mm	4 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-50 vac	NO-NC	4 WIIES	order No.			
10-30 Vdc	PNP	3 wires		IS-F12-S1-S2	IS-F12-T1-S2	
	NO		order No.	95B065360	95B065370	
10-30 Vdc	PNP NC	3 wires	order No.			
	NPN		order No.			
10-30 Vdc	NO	3 wires	order No.			
40.001/1	NPN	<u> </u>				
10-30 Vdc	NC	3 wires	order No.			
10-30 Vdc	PNP	4 wires				
10-50 vac	NO-NC	4 WIIES	order No.			
10-30 Vdc	NPN	4 wires				
	NO-NC		order No.			
10-30 Vdc	NO-NC	2 wires	audau Na			
			order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
	NO	2/2 wires				
20-250 Vac	NU	2/3 wires	order No.			
10-30 Vdc	Analog	3 wires				
10 50 140	0-20 mA	5 11105	order No.			
NAMUR amplifier	NAMUR	2 wires				
			order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15%	< 15%	
Max. Output Currer	nt			200 mA	200 mA	
Min. Output Curre				< 10mA	< 10mA	
Residual Current				< 0,1 mA	< 0,1 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				Present	Present	
Switching Frequen	псу			2000 Hz	1000 Hz	
Start Up Delay				< 0,1 ms	< 0,1 ms	
Repeatability				< 1%	< 1%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)	
Protection Degree				IP67	IP67	
Cable Length						

Stainless-Steel

PTFE

10 Nm

25g

Cable Section

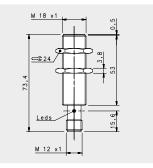
Active face

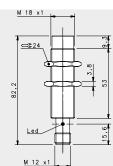
Housing Material

WELD FIELD IMMUNE M18



NOMINAL SWITCHING DISTANCE





FIELD IMMUNE STAINLESS STEEL FLUSH NON FLUSH M12 conn M12 conn 5 mm 8 mm -- -- -- -- -- -- -- --

10 20 1/4-	PNP/NPN	1			
10-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	PNP	3 wires		IS-F18-S1-S2	IS-F18-T1-S2
10-30 Vuc	NO	5 WIIES	order No.	95B065380	95B065390
10-30 Vdc	PNP	3 wires			
	NC		order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10, 20,1/4-	NPN	2			
10-30 Vdc	NC	3 wires	order No.		
10-30 Vdc	PNP	4 wires			
10 50 140	NO-NC	4 WIICS	order No.		
10-30 Vdc	NPN	4 wires			
	NO-NC		order No.		
10-30 Vdc	NO-NC	2 wires			
			order No.		
20-250 Vac/Vdc	NO	2 wires			
			order No.		
20-250 Vac/Vdc	NC	2 wires			
			order No.		
20-250 Vac	NO	2/3 wires			
			order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 15%	< 15%
Max. Output Current	200 mA	200 mA
Min. Output Current	< 10mA	< 10mA
Residual Current	< 0,1 mA	< 0,1 mA
Voltage Drop	< 1,5V	< 1,5V
Operation Led	Present	Present
Switching Frequency	1000 Hz	500 Hz
Start Up Delay	< 0,2 ms	< 0,5 ms
Repeatability	< 1%	< 1%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Stainless-Steel	Stainless-Steel
Active face	PTFE	PTFE
Tightening torque	30 Nm	30 Nm
Weight - Cable Output		
Weight - Connector Output	94g	91g

INDUCTIVE AC

Nickel-plated Brass housing PA 16 active face Standard length Operating distance 2 ... 10 mm M12, M18, M30 cable or M12 connector 20+250 Vac (50,60 Hz) 2 or 3 wires NO IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
Average red. Fact.	0,30,45	0,61	0,250,45	0,350,5

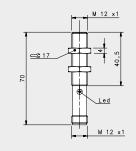


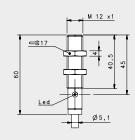




INDUCTIVE AC M12







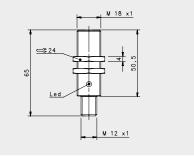
STANDARD VAC

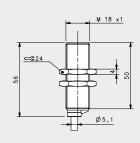
				FLUS	5H
				M12 conn	cable
OMINAL SWITCH	ING DISTAN	CE		2 mm	2 mm
0-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
0-30 Vdc	PNP NO	3 wires	order No.		
0-30 Vdc	PNP NC	3 wires			
0-30 Vdc	NPN NO	3 wires	order No.		
0-30 Vdc	NPN NC	3 wires	order No.		
0-30 Vdc	PNP	4 wires	order No.		
0-30 Vdc	NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.		
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3wires	order No.	 IS-12-A15-S2	 IS-12-A15-03
0-30 Vdc	Analog	3 wires	order No.	958060690	95B060680
	0-20 mA		order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
esidual Ripple				< 10%	< 10%
lysteresis				< 10%	< 10%
lax. Output Curre	nt			500 mA, inrush:1,5A	500 mA, inrush:1,5A
lin. Output Curre	nt			20 mA	20 mA
esidual Current				< 0,7 mA	< 0,7 mA
oltage Drop				< 4 V (I=100mA)	< 4 V (l=100mA)
peration Led				Yellow	Yellow
witching Frequer	псу			25 Hz	25 Hz
tart Up Delay				< 300 ms	< 300 ms
lepeatability				5%	5%
hort Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)
lectric Protectior	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
rotection Degree				IP67	IP67
able Length					2 m
able Section					2 x 0,25 mm²
lousing Material				Nickel-plated brass	Nickel-plated brass
ctive face				PA 16	PA 16
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Veight - Cable Out	put				145g
Weight - Connecto	r Output			95g	

INDUCTIVE AC M18



Weight - Connector Output





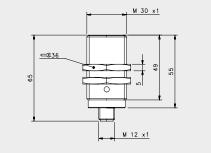
STANDARD VAC

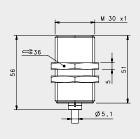
				FLUSH											
				M12 conn	cable										
NOMINAL SWITCHIN	IG DISTANO	E		5 mm	5 mm										
10. 20.)/da	PNP/NPN	(
10-30 Vdc	NO-NC	4 wires	order No.												
10-30 Vdc	PNP	3 wires													
10-50 Vuc N	0	5 WIES	order No.												
10-30 Vac	PNP	3 wires													
N	VC	5 Wiles	order No.												
10-30 Vac	NPN	3 wires													
	00		order No.												
	NPN NC	3 wires	a unda u Mia												
			order No.												
	PNP NO-NC	4 wires	ordor No												
			order No.												
	NPN NO-NC	4 wires	order No.												
			UIGET NU.												
10-30 Vdc 🛛 🔊	NO-NC	2 wires	order No.												
			oraci ivo.												
20-250 Vac/Vdc	00	2 wires	order No.												
20-250 Vac/Vdc	NC	2 wires	order No.												
20.250.1		2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2		IS-18-A15-S2	IS-18-A15-03
20-250 Vac	00	2/3 wires	order No.	95B060780	95B060770										
10-30 Vdc	Analog	3 wires	3 wires	3 wires											
10-50 Vuc C	D-20 mA				J WILES	JWIES	JWIIES	order No.							
NAMUR amplifier	NAMUR	2 wires													
NAMON ampliner	AMON	2 WIIES	order No.												
Nominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)										
Residual Ripple				< 10%	< 10%										
Hysteresis				< 10%	< 10%										
Max. Output Current				500 mA, inrush:1,5A	500 mA, inrush:1,5A										
Min. Output Current				20 mA	20 mA										
Residual Current				< 0,7 mA	< 0,7 mA										
Voltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)										
Operation Led				Yellow	Yellow										
Switching Frequency				25 Hz	25 Hz										
Start Up Delay				< 300 ms	< 300 ms										
Repeatability				5%	5%										
Short Circuit Protecti	ion			Present (self-resetting)	Present (self-resetting)										
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads										
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)										
Protection Degree				IP67	IP67										
Cable Length					2 m										
Cable Section					2 x 0,25 mm²										
Housing Material				Nickel-plated brass	Nickel-plated brass										
Active face				PA 16	PA 16										
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog										
Weight - Cable Output					145g										
Weight - Connector O	utput			95g											

95g

INDUCTIVE AC M30





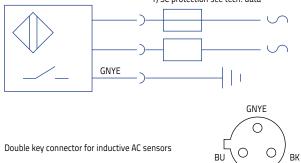


STANDARD VAC

				FLUSH	l i i i i i i i i i i i i i i i i i i i
				M12 conn	cable
IOMINAL SWITCH	ING DISTAN	CE		10 mm	10 mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
0.001/4-	PNP	2			
10-30 Vdc	NO	3 wires	order No.		
	PNP	2			
10-30 Vdc	NC	3 wires	order No.		
10-30 Vdc	NPN	3 wires			
10-30 Vuc	NO	5 WIES	order No.		
0-30 Vdc	NPN	3 wires			
0 50 140	NC	JWIICJ	order No.		
0-30 Vdc	PNP	4 wires			
0 50 142	NO-NC	4 WIICS	order No.		
10-30 Vdc	NPN	4 wires			
2000	NO-NC		order No.		
10-30 Vdc	NO-NC	2 wires			
55742		2 111103	order No.		
20-250 Vac/Vdc	NO	2 wires			
			order No.		
20-250 Vac/Vdc	NC	2 wires			
			order No.		
20-250 Vac	NO	2/3 wires		IS-30-A15-S2	IS-30-A15-03
			order No.	95B060820	95B060810
0-30 Vdc	Analog	3 wires			
	0-20 mA		order No.		
NAMUR amplifier	NAMUR	2 wires	oudou No		
			order No.		
Iominal Voltage				20+250 Vac (50,60 Hz)	20+250 Vac (50,60 Hz)
Residual Ripple				< 10%	< 10%
lysteresis				< 10%	< 10%
Nax. Output Currer	ht.			500 mA, inrush:1,5A	500 mA, inrush:1,5A
/in. Output Curre				20 mA	20 mA
Residual Current				< 0,7 mA	< 0,7 mA
/oltage Drop				< 4 V (I=100mA)	< 4 V (I=100mA)
)peration Led				Yellow	Yellow
witching Frequer	ncv.			25 Hz	25 Hz
Start Up Delay	- 1			< 300 ms	< 300 ms
Repeatability				5%	5%
Short Circuit Prote	ction			Present (self-resetting)	Present (self-resetting)
				Against polarity reversal	Against polarity reversal
lectric Protection				inductive loads	inductive loads
emperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	IP67
able Length					2 m
able Section					2 x 0,25 mm²
lousing Material				Nickel-plated brass	Nickel-plated brass
active face				PA 16	PA 16
ightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog
Neight - Cable Out	put				145g
Weight - Connector				95g	

1) SC protection see tech. data

Double key connector for inductive AC sensors



INDUCTIVE AC

NAMUR

Stainless Steel housing LCP active face Short length Operating distance 0.8 ... 15 mm M5, M8, M12, M30 Cable, M8 or M12 connector 2 wires IP67 protection

REDUCTION FACTOR

	ALUMINUM (25°C)	STAINLESS STEEL AISI316L	COPPER	BRASS
FLUSH	0,30,5	0,70,9	0,20,5	0,40,6
NON-FLUSH	0,40,6	0,71,05	0,40,5	0,50,7

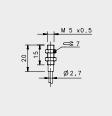
HILLS SPECIAL STRUCTURES



M12/18/30 FLUSH models are ATEX certified I I 3G EX nA II T6 I I 3D EX tD A22 IP67 T85°C







NAMUR FLUSH

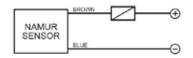
cable

NOMINAL SWITCHING DISTANCE

NOMINAL SWITCH	IING DISTAN	CE		0,8 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.	
10-30 Vdc	PNP NO	3 wires	order No.	
10-30 Vdc	PNP NC	3 wires	order No.	
10-30 Vdc	NPN NO	3 wires	order No.	
10-30 Vdc	NPN	3 wires	order No.	
10-30 Vdc	PNP NO-NC	4 wires	order No.	
10-30 Vdc	NPN NO-NC	4 wires	order No.	
10-30 Vdc	NO-NC	2 wires	order No.	
20-250 Vac/Vdc	NO	2 wires	order No.	
20-250 Vac/Vdc	NC	2 wires	order No.	
20-250 Vac	NO	2/3 wires	order No.	
10-30 Vdc	Analog 0-20 mA	3 wires	order No.	
NAMUR amplifier	NAMUR	2 wires	order No.	IS-05-A20-03 95B065410

Nominal Voltage 6+12 V DC **Residual Ripple** ----Hysteresis < 10% Max. Output Current < 3 mA (metal absent) Min. Output Current < 1 mA (metal present) **Residual** Current ----Voltage Drop ----Operation Led ---Switching Frequency 2000 Hz Start Up Delay < 10 ms Repeatability ---Short Circuit Protection Present (self-resetting) Against polarity reversal Electric Protection inductive loads Temperature Limit (-25 ... +70 °C) Protection Degree IP67 2 m (PVC) Cable Length Cable Section 2x 0,15 mm² Housing Material Stainless-Steel Active face LCP Tightening torque 1,5Nm Weight - Cable Output 25g Weight - Connector Output

2 wires NAMUR

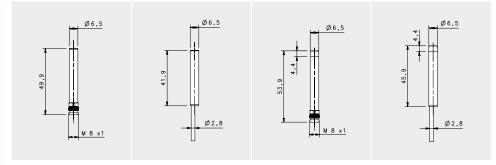


M8 2 wires NAMUR

·(•	•)•		View o ble mail innecto
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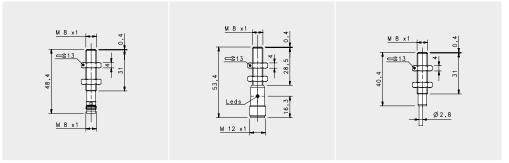
NAMUR M6.5





					NAI	MUR	
				FLL	JSH	NON F	FLUSH
				M8 conn	cable	M8 conn	cable
IOMINAL SWITCH	IING DISTANO	Œ		1 mm	1 mm	2 mm	2 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires					
10-30 Vdc	PNP	3 wires	order No.				
10-30 Vdc	NC NPN	3 wires	order No.				
	NO NPN		order No.				
10-30 Vdc	NC	3 wires	order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.				
10-30 Vdc	NPN NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires					
20-250 Vac/Vdc	NO	2 wires	order No.				
		2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.	IS-65-A20-S1 95B066310	IS-65-A20-03 95B066290	IS-65-C20-S1 95B066320	IS-65-C20-03 95B066300
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present
Residual Current							
/oltage Drop							
Operation Led							
Switching Frequer	псу			2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay							
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting
Electric Protection	1			Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity revers inductive loads
lemperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2x 0,25 mm²		2 x 0,25 mm ²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP	LCP
Weight - Cable Out	nut				80 g		80 g
Weight - Cable Out Weight - Connecto				 40 g		 40 g	





* see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog

55g

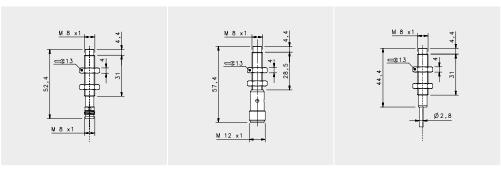
80 g

					NAMUR	
					FLUSH	
				M8 conn	M12 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		1 mm	1 mm	1 mm
10-30 Vdc	PNP/NPN	4 wires				
10-50 Vuc	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10 30 440	NO	5 WIICS	order No.			
10-30 Vdc	PNP	3 wires				
	NC		order No.			
10-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN NC	3 wires	andan Na			
			order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
	NPN		order No.			
10-30 Vdc	NO-NC	4 wires	order No.			
			oraci ivo.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20.2501/	NO	2/2				
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog	Zwiros				
10-50 Vuc	0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires		IS-08-A20-S1	IS-08-A20-S2	S-08-A20-03
NAMON ampimer	NAMOR	2 WIIES	order No.	95B066780	95B066760	95B066740
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
Residual Ripple				< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%
Max. Output Currer				< 3 mA (metal absent)	< 3 mA (metal absent)	< 3 mA (metal absent)
Min. Output Curre	nt			< 1 mA (metal present)	< 1 mA (metal present)	< 1 mA (metal present)
Residual Current						
Voltage Drop						
Operation Led Switching Frequer	201			 2000 Hz	 2000 Hz	 2000 Hz
Start Up Delay	icy					2000 HZ
Repeatability				< 3%	< 3%	< 3%
Short Circuit Prote	oction			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
				Against polarity reversal	Against polarity reversal	Against polarity reversal
Electric Protection				inductive loads	inductive loads	inductive loads
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67
Cable Length						2 m
Cable Section						2x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP	LCP	LCP

35g

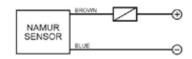
Weight - Connector Output

Tightening torque Weight - Cable Output



	NAMUR	
	NON FLUSH	
M8 conn	M12 conn	cable
2 mm	2 mm	2 mm
IS-08-C20-S1	IS-08-C20-S2	IS-08-C20-03
95B066790	95B066770	95B066750
7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC
< 10%	< 10%	< 10%
< 10%	< 10%	< 10%
< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)
2000 Hz	2000 Hz	2000 Hz
< 3%	< 3%	< 3%
Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
IP67	IP67	IP67
		2 m
		2 x 0,25 mm²
Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
LCP	LCP	LCP * coo page 5 of the Inductive Sensors Catalo
see page 5 of the inductive Sensors Latalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Latalo 80 g
35g	55g	

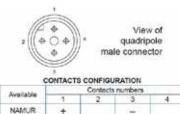
2 wires NAMUR



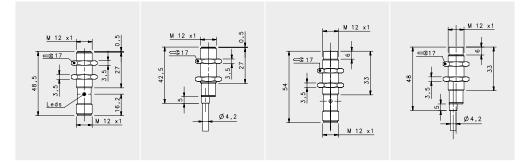
M8 2 wires NAMUR



M12 2 wires NAMUR







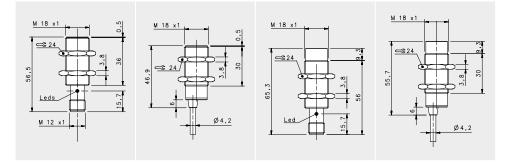
				NAMUR			
				FLUSH		NON FLUSH	
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCHING DISTANCE				2 mm	2 mm	4mm	4mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
10-30 Vdc	PNP NC	3 wires	order No.				
10-30 Vdc	NPN NO	3 wires	order No.				
10-30 Vdc	NPN	3 wires					
10-30 Vdc	NC PNP	4 wires	order No.				
	NO-NC NPN		order No.				
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires					
10-30 Vdc	Analog	3 wires	order No.				
NAMUR amplifier	0-20 mA	2 wires	order No.	 IS-12-A20-S2	 IS-12-A20-03	 IS-12-C20-S2	 IS-12-C20-03
NAMOR amplifier	NAMOR	2 wires	order No.	95B064180	95B064160	95B064190	95B064170
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre				< 3 mA (metal absent)			
Min. Output Curre	nt			< 1 mA (metal present)			
Residual Current							
Voltage Drop							
Operation Led							
Switching Frequency				2000 Hz	2000 Hz	2000 Hz	2000 Hz
Start Up Delay							
Repeatability	ation			< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads			
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree	Protection Degree			IP67	IP67	IP67	IP67

Cable Length ---2 m ---2 m Cable Section ----2 x 0,25 mm^2 ----2 x 0,25 mm^2 Housing Material Nickel-plated brass Nickel-plated brass Nickel-plated brass Nickel-plated brass LCP * see page 5 of the Inductive Sensors Catalog LCP LCP LCP Active face * see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog * see page 5 of the Inductive Sensors Catalog Tightening torque Weight - Cable Output 110 g 110 g Weight - Connector Output 60 g 60 g ------



Weight - Cable Output

Weight - Connector Output



				NAMUR				
				FLUSH		NON FLUSH		
				M12 conn	cable	M12 conn	cable	
IOMINAL SWITCH	ING DISTAN	CE		5mm	5mm	8mm	8mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.					
10-30 Vdc	PNP NO	3 wires	order No.					
10-30 Vdc	PNP NC	3 wires	order No.					
10-30 Vdc	NPN NO	3 wires	order No.					
10-30 Vdc	NPN NC	3 wires	order No.					
10-30 Vdc	PNP NO-NC	4 wires	order No.					
10-30 Vdc	NPN NO-NC	4 wires	order No.					
10-30 Vdc	NO-NC	2 wires	order No.					
20-250 Vac/Vdc	NO	2 wires	order No.					
20-250 Vac/Vdc	NC	2 wires	order No.					
20-250 Vac	NO	2/3 wires	order No.					
10-30 Vdc	Analog 0-20 mA	3 wires	order No.					
NAMUR amplifier	NAMUR	2 wires	order No.	IS-18-A20-S2 95B064380	IS-18-A20-03 95B064360	IS-18-C20-S2 95B064390	IS-18-C20-03 95B064370	
Nominal Voltage				7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	7,7 + 9 V DC	
Residual Ripple				< 10%	< 10%	< 10%	< 10%	
Hysteresis				< 10%	< 10%	< 10%	< 10%	
Max. Output Curre Min. Output Curre				< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)	< 3 mA (metal absent) < 1 mA (metal present)	
Residual Current								
Voltage Drop								
Operation Led Switching Frequer	זרע			1000 Hz	1000 Hz	1000 Hz	1000 Hz	
Start Up Delay								
Repeatability				< 3%	< 3%	< 3%	< 3%	
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	
Protection Degree				IP67	IP67	IP67	IP67	
Cable Length					2 m		2 m	
Cable Section					2 x 0,25 mm²		2 x 0,25 mm²	
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	
Active face				LCP	LCP	LCP	LCP	
Tightening torque				* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inductive Sensors Catalog	* see page 5 of the Inducti Sensors Catalog	
Weight - Cable Output					1/15g	5	1/15g	

95g

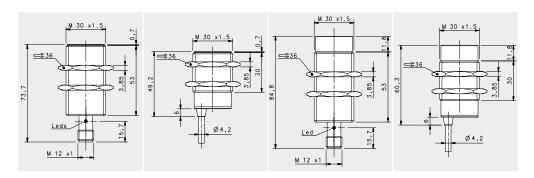
145g

95g

ODATALOGIC 67

145g





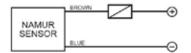
170 g

				NAMUR			
				FLUSH		NON FLUSH	
				M12 conn	cable	M12 conn	cable
NOMINAL SWITCHING DISTANCE				10mm	10mm	15mm	15mm
10-30 Vdc	NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-50 Vac	NO	5 WIIES	order No.				
10-30 Vdc	PNP	3 wires					
	NC		order No.				
10-30 Vdc	NPN NO	3 wires	order No.				
	NPN		oraci ivo.				
10-30 Vdc	NC	3 wires	order No.				
10-30 Vdc	PNP	4 wires					
	NO-NC	4 WILES	order No.				
10-30 Vdc	NPN	4 wires					
	NO-NC		order No.				
10-30 Vdc	NO-NC	2 wires	ordor No				
			order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
			oraci noi				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3wires					
20-250 Vac	NO	2/ 5 WILES	order No.				
10-30 Vdc	Analog	3 wires					
	0-20 mA		order No.				
NAMUR amplifier	NAMUR	2 wires	order No.	IS-30-A20-S2 95B064630	IS-30-A20-03 95B064610	IS-30-C20-S2 95B064640	IS-30-C20-03 95B064620
			order No.	530004030	550004010	550004040	555004020
Nominal Voltage				7,7 + 9 V DC			
Residual Ripple				< 10%	< 10%	< 10%	< 10%
Hysteresis				< 10%	< 10%	< 10%	< 10%
Max. Output Curre	nt			< 3 mA (metal absent)			
Min. Output Curre	nt			< 1 mA (metal present)			
Residual Current							
Voltage Drop							
Operation Led Switching Frequer				 500 Hz	 500 Hz	 500 Hz	 500 Hz
Start Up Delay	109						500 Hz
Repeatability				< 3%	< 3%	< 3%	< 3%
Short Circuit Prote	ection			Present (self-resetting)	Present (self-resetting)	Present (self-resetting)	Present (self-resetting)
Electric Protection				Against polarity reversal inductive loads			
Temperature Limit				(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)	(-25 +60 °C)
Protection Degree				IP67	IP67	IP67	IP67
Cable Length					2 m		2 m
Cable Section					2 x 0,25 mm²		2 x 0,25 mm²
Housing Material				Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Active face				LCP * see page 5 of the Inductive			
Tightening torque				Sensors Catalog	Sensors Catalog	Sensors Catalog	Sensors Catalog
Weight - Cable Out	•			 170 g	210 g	 170 g	210 g
Weight - Connector Output				1/0 σ		170 a	

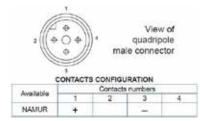
170 g

Weight - Connector Output

2 wires NAMUR



M12 2 wires NAMUR



SQUARE

PBT (resin) or Nickel-plated Brass housing Operating distance 1.5 ... 15 mm 40x40 mm or 8x8 mm dimension Cable, M8 connector or Terminal Block 2 or 3 wires PNP, PNP/NPN, NO, NC, NO/NC IP67

 REDUCTION FACTOR

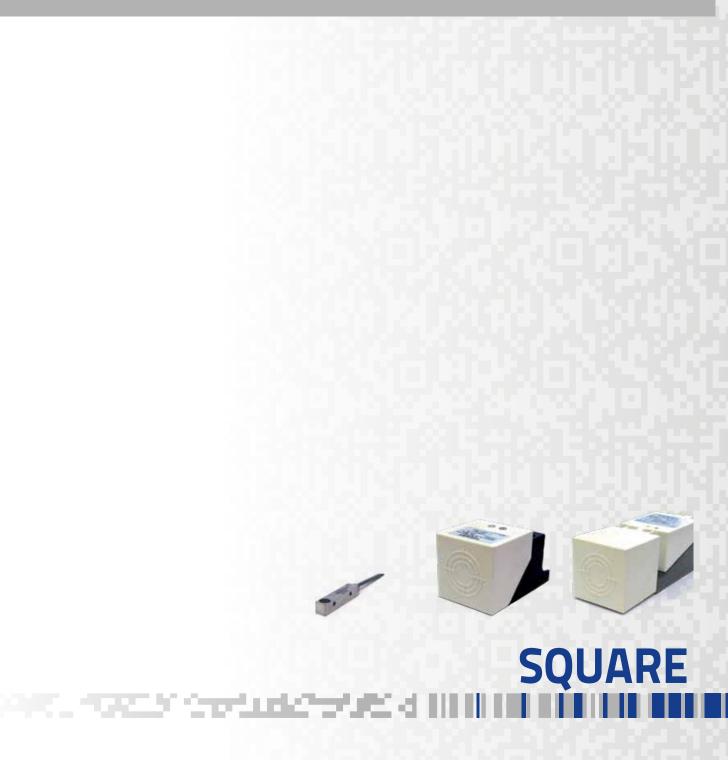
 ALUMINUM (25°C)
 STAINLESS STEEL AISI316L
 COPPER
 BRASS

 Average red. Fact.
 0,45
 0,85
 0,4
 0,5

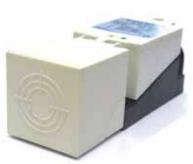
111 S 200 Colour and August

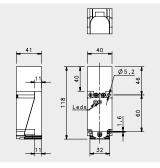


*IS-88 models only



SOUARE 40X40





PBT (RESIN)

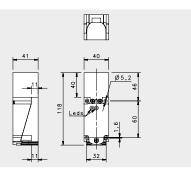
262g

				40X40		
				FLUSH	NON FLUSH	
				Terminal Block	Terminal Block	
NOMINAL SWITCHING DISTANCE				15 mm	30mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires		IS-40-W5-S3	IS-40-Y5-S3	
10-30 Vdc	NPN	4 wires	order No.	95B065240 IS-40-W6-53	95B065280 IS-40-Y6-S3	
10-30 Vdc	NO-NC	2 wires	order No.	95B065230	958065270	
20-250 Vac/Vdc	NO	2 wires	order No.			
			order No.			
20-250 Vac/Vdc	NC	2 wires	order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				10-30 Vdc	10-30 Vdc	
Residual Ripple				< 10%	< 10%	
Hysteresis				< 15% (Sr)	< 15% (Sr)	
Max. Output Currer	nt			200mA	200mA	
Min. Output Curre	nt					
Residual Current				< 0,01 mA	< 0,01 mA	
Voltage Drop				< 1,5V	< 1,5V	
Operation Led				YES	YES	
Switching Frequency				100 Hz	100 Hz	
Start Up Delay						
Repeatability				< 1.0% (Sr)	< 1.0% (Sr)	
Short Circuit Protection				Present (self-resetting)	Present (self-resetting)	
Electric Protection				Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25+75C)	(-25 +75 °C)	
Protection Degree				IP67	IP67	
Cable Length						
Cable Section						

PBT (RESIN)

262g

Housing Material Weight - Cable Output Weight - Connector Output

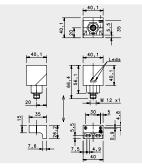


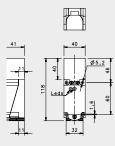
40X40 VAC/VDC

40X40 \	AC/VDC
FLUSH	NON FLUSH
Terminal Block	Terminal Block
15 mm	30mm
IS-40-W7-S3	IS-40-Y7-S3
95B065250	95B065290
IS-40-W8-S3	IS-40-Y8-S3
95B065260	95B065300
20-250 VAC/Vdc, 50-60 Hz	20-250 VAC/Vdc, 50-60 Hz
< 10%	< 10%
< 15% (Sr)	< 15% (Sr)
200mA	200mA
< 2,5mA	< 2,5mA
< 10Vac ; < 8Vdc	< 10Vac ; < 8Vdc
YES	YES
25 Hz AC; 40 Hz DC	25 Hz AC; 40 Hz DC
< 1.0% (Sr)	< 1.0% (Sr)
Present (self-resetting)	Present (self-resetting)
Against polarity reversal inductive loads	Against polarity reversal inductive loads
(-25 +70 °C)	(-25 +70 °C)
IP67	IP67
PBT (RESIN)	PBT (RESIN)
262g	262g

SOUARE 40X40



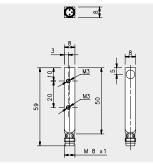


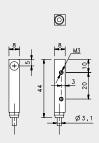


				SHORT	ANALOG OUTPUT
				FLUSH	NON FLUSH
				M12 conn.	Terminal Block
IOMINAL SWITCH	ING DISTAN	CE		15mm	7-20mm
	PNP/NPN				
10-30 Vdc	NO-NC	4 wires	order No.		
10. 20.1/4-	PNP	Duringe			
10-30 Vdc	NO	3 wires	order No.		
10-30 Vdc	PNP	3 wires			
10-30 vac	NC	2 MILES	order No.		
10-30 Vdc	NPN	3 wires			
	NO	5 10105	order No.		
10-30 Vdc	NPN	3 wires			
	NC		order No.		
10-30 Vdc	PNP	4 wires		IS-40-X5-S2	
	NO-NC		order No.	95B065320	
10-30 Vdc	NPN	4 wires		IS-40-X6-52	
	NO-NC		order No.	95B065310	
10-30 Vdc	NO-NC	2 wires	and an Na		
			order No.		
20-250 Vac/Vdc	NO	2 wires	a unda u Mar		
			order No.		
20-250 Vac/Vdc	/dc NC 2 wires	2 wires	order No.		
			order No.		
20-250 Vac	NO	2/3 wires	order No.		
	Analog		order No.		IS-40-C11-S3
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		95B065330
			order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
				10 2014	10 2011
Nominal Voltage				10-30 Vdc	18-30 Vdc
Residual Ripple				< 10%	< 10%
Hysteresis				< 15% (Sr)	< 10% (Sr)
Max. Output Currer				200mA	0-20mA/200 Ω Max.
Min. Output Curre	nt				
Residual Current				< 0,01mA	
/oltage Drop				< 1,5V YES	
Operation Led Switching Frequen				100 Hz	 100 Hz
	icy			100 H2	
Start Up Delay				 < 1.0% (Sr)	 0,02 mm
Repeatability Short Circuit Protection			Present (self-resetting)	Present (self-resetting)	
Electric Protection			Against polarity reversal inductive loads	Against polarity reversal inductive loads	
Temperature Limit				(-25 +70 °C)	(-25 +70 °C)
Protection Degree				IP67	(-25 +70 C) IP67
Table Length					
Cable Length					
Housing Material				PBT (RESIN)	PBT (RESIN)
Housing Material Weight - Cable Out	put			PBT (RESIN) 	PBI (RESIN)
Weight - Cable Out Weight - Connector				 170 g	 242g
weight - connector	σατρατ			1/0 8	2428

SOUARE 8X8







				SHORT			
				FL	USH		
				M8 conn	cable		
NOMINAL SWITCH	ING DISTAN	CE		1,5mm	1,5mm		
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.	IS-88-Q1-S1 95B060840	IS-88-Q1-03 95B060830		
10-30 Vdc	PNP NC	3 wires	order No.				
10-30 Vdc	NPN NO	3 wires	order No.				
10-30 Vdc	NPN NC	3 wires	order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.				
10-30 Vdc	NPN NO-NC	4 wires					
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
20-250 Vac	NO	2/3 wires	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				
Nominal Voltage				10-30 Vdc	10-30 Vdc		

Nominal Voltage	10-30 Vdc	10-30 Vdc
Residual Ripple	< 10%	< 10%
Hysteresis	< 10% (Sr)	< 10% (Sr)
Max. Output Current	200mA	200mA
Min. Output Current		
Residual Current		
Voltage Drop	< 1,2V	< 1,2V
Operation Led	Yellow	Yellow
Switching Frequency	500 Hz	500 Hz
Start Up Delay	75 ms	75 ms
Repeatability	< 3%	< 3%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	(-25 +70 °C)	(-25 +70 °C)
Protection Degree	IP67	IP67
Cable Length		2 m
Cable Section		3x0,14mm²
Housing Material	nickel-plated brass	nickel-plated brass
Weight - Cable Output		80 g
Weight - Connector Output	40 g	

CAPACITIVE

Capacitive sensors are noncontact proximity devices suitable for detecting metals, nonmetals, solids, and liquids. The oscillating circuit is influenced by variations in capacity. When any material comes close to the active face, the capacity of the sensor varies and, if the threshold distance is passed, the sensor switches the state of its outputs. Like for the inductive sensors, the operating distance is calculated using a square piece of Fe37, with 1 mm thickness. The variation of the capacitance is due to the conductivity or non-conductivity of the different materials. Conductive materials change the capacitance of the sensor, while non-conductive materials change the dielectric constant of the reference capacitor; the sensor feel the variation of the generated electric field by its active sensing face.

Datalogic offers a basic range for the Capacitive sensors, M18 and M30 tubular housing, in Direct or Alternated Current, in nickel-plated brass or plastic housing, with timer and sensitivity adjustment trimmer, equipped with the industrial standard outputs, suitable for the most common applications of detection and in the filling level control of the materials.

Nickel plated brass M18, M30 Basic series (NO-NC) Capacitive A.C. series (plastic housing) Multi-voltage series (SPDT relay) Operating distance: 5...25 mm Cable or M8 connector 2,4,6 wires PNP or NPN, N.O. and N.C. outputs, SPDT relay Delay ON or delay OFF model IP67 protection

MATERIALS	REDUCTION FACTOR
Metal (Fe37)	1xSn
Water	1xSn
P.V.C.	0.5xSn
Glass	0.5xSn
Wood	0.4xSn



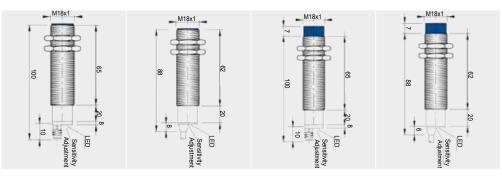


CAPACITIVE BASIC, CAPACITIVE A.C., MULTIVOLTAGE

ODATALOGIC 77

CAPACITIVE BASIC M18



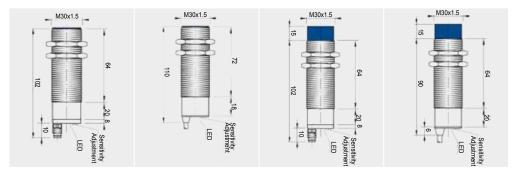


				STANDARD			
				FLU	SH	NON F	LUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITCH	IING DISTAN	CE		15 mm	15 mm	110 mm	110 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP	3 wires					
	NO		order No.				
10-30 Vdc	PNP NC	3 wires	order No.				
10-30 Vdc	NPN NO	3 wires					
			order No.				
10-30 Vdc	NPN NC	3 wires	order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.	CS08K2 958901040	CS08 958901020	CS14K2 958901270	CS14 958901120
	NPN		Ulder NO.	CS07K2	CS07	CS13K2	CS13
10-30 Vdc	NO-NC	4 wires	order No.	958901000	958901160	958901250	958901100
10-30 Vdc	NO-NC	2 wires					
10 50 140		2 111105	order No.				
20-250 Vac/Vdc	NO	2 wires					
			order No.				
20-250 Vac/Vdc	NC	2 wires	order No.				
			order ritor				
20-250 Vac	NO	2/3 wires	order No.				
10-30 Vdc	Analog	3 wires					
	0-20 mA	J WILES	order No.				
NAMUR amplifier	NAMUR	2 wires					
is more amplified		2 WIICS	order No.				

Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
5		<10%	<10%	<10%
Residual Ripple	<10%			
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity	Against polarity	Against polarity	Against polarity
	reversal inductive loads	reversal inductive loads	reversal inductive loads	reversal inductive loads
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		160 g		160 g
Weight - Connector Output	120 g		120 g	

CAPACITIVE BASIC M30



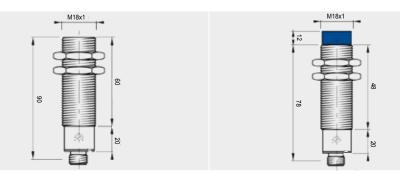


				STANDARD			
				FLL	JSH	NON F	LUSH
				M8 conn	cable	M8 conn	cable
NOMINAL SWITCH	ING DISTAN	CE		115 mm	115 mm	125 mm	125 mm
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.				
10-30 Vdc	PNP NO	3 wires	order No.				
10-30 Vdc	PNP	3 wires					
10-30 Vdc	NC NPN	3 wires	order No.				
10-30 vac	NO	5 WIIES	order No.				
10-30 Vdc	NPN NC	3 wires	order No.				
10-30 Vdc	PNP NO-NC	4 wires	order No.	CS10K2 958901080	CS10 958901060	CS16K2 958901330	CS16 958901140
10-30 Vdc	NPN NO-NC	4 wires	order No.	CS09K2 958901230	CS09 958901180	CS15K2 958901300	CS15 958901200
10-30 Vdc	NO-NC	2 wires	order No.				
20-250 Vac/Vdc	NO	2 wires	order No.				
20-250 Vac/Vdc	NC	2 wires					
20-250 Vac	NO	2/3wires	order No.				
20 200 040		2/ 3 00/ 03	order No.				
10-30 Vdc	Analog 0-20 mA	3 wires	order No.				
NAMUR amplifier	NAMUR	2 wires	order No.				

Neminal Valtage	12 20/14-1 15 (10%)	12 20/14-1 15 (10%)	12 20/14-1 15 (10%)	12 20/14-1 15 (10%)
Nominal Voltage	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)	12-30Vdc(-15/10%)
Residual Ripple	<10%	<10%	<10%	<10%
Hysteresis	depends on the sensing distance			
Max. Output Current	200 mA	200 mA	200 mA	200 mA
Residual Current	< 10 mA	< 10 mA	< 10 mA	< 10 mA
Voltage Drop	< 1,8 V (I=100 m A)	< 1,8 V (l=100 m A)	< 1,8 V (I=100 m A)	< 1,8 V (I=100 m A)
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz	10 Hz	10 Hz
Start Up Delay	< 100 ms	< 100 ms	< 100 ms	< 100 ms
Repeatability	≤ 5%	≤ 5%	≤ 5%	≤ 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)	Present(self-resetting)
Electric Protections	Against polarity reversal inductive loads			
Temperature Limits	- 25 +70 C			
Protection Degree	IP67	IP67	IP67	IP67
Cable Length		2 m		2 m
Cable Section		4x 0,25 mm^2		4x 0,25 mm^2
Housing Material	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output		250 g		250 g
Weight - Connector Output	210 g		210 g	

CAPACITIVE A.C. M18



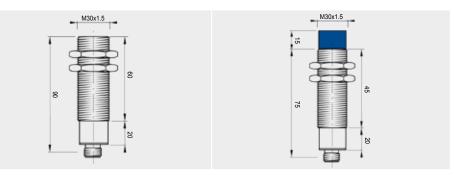


				STAN	IDARD	
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
IOMINAL SWITCH		CE		28 mm	215 mm	
IOMINAL SWITCH		LE				
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.			
10-30 Vdc	PNP NO	3 wires	order No.			
10-30 Vdc	PNP NC	3 wires	order No.			
10-30 Vdc	NPN NO	3 wires	order No.			
10-30 Vdc	NPN NC	3 wires	order No.			
10-30 Vdc	PNP NO-NC	4 wires	order No.			
10-30 Vdc	NPN NO-NC	4 wires	order No.			
10-30 Vdc	NO-NC	2 wires	order No.			
20-250 Vac/Vdc	NO	2 wires	order No.	CSP40K4 958901380	CSP41K4 958901390	
20-250 Vac/Vdc	NC	2 wires				
			order No.			
20-250 Vac	NO	2/3 wires	order No.			
10-30 Vdc	Analog 0-20 mA	3 wires	order No.			
NAMUR amplifier	NAMUR	2 wires	order No.			
Nominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current	
Residual Ripple				<10%	<10%	
Hysteresis			< 15%	< 15%		
Max. Output Current			300 mA	300 mA		
Min. Output Current			2,5 mA	2,5 mA		
Residual Current			< 2,5 mA	< 2,5 mA		
Setting				sensitivity adjustment trimmer	sensitivity adjustment trimmer	
Operation Led				Yellow	Yellow	
Switching Frequer	וכע			25 Hz	25 Hz	
Start Up Delay	,					
Depentability				< F%	F ⁰	

Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	80 g	80 g

CAPACITIVE A.C. M30





				STAN	IDARD
				FLUSH	NON FLUSH
				M12 conn	M12 conn
NOMINAL SWITCHING DISTANCE			220 mm	230 mm	
10-30 Vdc	PNP/NPN NO-NC	4 wires	order No.		
10-30 Vdc	PNP NO	3 wires	order No.		
10-30 Vdc	PNP NC	3 wires	order No.		
10-30 Vdc	NPN NO	3 wires	order No.		
10-30 Vdc	NPN NC	3 wires	order No.		
10-30 Vdc	PNP NO-NC	4 wires	order No.		
10-30 Vdc	NPN NO-NC	4 wires	order No.		
10-30 Vdc	NO-NC	2 wires	order No.		
20-250 Vac/Vdc	NO	2 wires	order No.	CSP50K4 958901400	CSP51K4 958901410
20-250 Vac/Vdc	NC	2 wires	order No.		
20-250 Vac	NO	2/3 wires	order No.		
10-30 Vdc	Analog 0-20 mA	3 wires	order No.		
NAMUR amplifier	NAMUR	2 wires	order No.		
Nominal Voltage				20-250 Vac (-15/10%)-5A source current	20-250 Vac (-15/10%)-5A source current
Residual Ripple				<10%	<10%
Hysteresis				< 15%	< 15%

Residual Ripple	<10%	<10%
Hysteresis	< 15%	< 15%
Max. Output Current	300 mA	300 mA
Min. Output Current	2,5 mA	2,5 mA
Residual Current	< 2,5 mA	< 2,5 mA
Setting	sensitivity adjustment trimmer	sensitivity adjustment trimmer
Operation Led	Yellow	Yellow
Switching Frequency	25 Hz	25 Hz
Start Up Delay		
Repeatability	< 5%	< 5%
Short Circuit Protection	Present(self-resetting)	Present(self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP67	IP67
Cable Length		
Cable Section		
Housing Material	Plastic (PBT)	Plastic (PBT)
Weight - Cable Output		
Weight - Connector Output	200 g	200 g

CAPACITIVE MULTIVOLTAGE M30



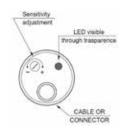




				STANDARD (TIMER TRIMMER)		
				FLUSH	NON FLUSH	
				M12 conn	M12 conn	
NOMINAL SWITCH	ING DISTAN	CE		20 mm	30 mm	
10-30 Vdc	PNP/NPN	4 wires				
10-30 Vac	NO-NC	4 wires	order No.			
10-30 Vdc	PNP	3 wires				
10 50 100	NO	JWIICJ	order No.			
10-30 Vdc	PNP	3 wires				
	NC		order No.			
10-30 Vdc	NPN	3 wires				
	NO		order No.			
10-30 Vdc	NPN	3 wires				
	NC		order No.			
10-30 Vdc	PNP NO-NC	4 wires				
			order No.			
10-30 Vdc	NPN NO-NC	4 wires				
	NU-NC		order No.			
10-30 Vdc	NO-NC	2 wires				
			order No.			
20-250 Vac/Vdc	NO	2 wires				
			order No.			
18230 VAC/DC	relay SPDT	6 wires		CS31	C532	
			order No.	958901150	958901220	
18230 Vac/dc	relay SPDT (delay ON)	6 wires	and an Ma	CS32TD5	CS31TD5	
			order No.	958901360	958901350	
18230 VAC/DC	relay SPDT (delay OFF)	6 wires	andan Na	CS32TE5	CS31TE5	
	(uciay OFF)		order No.	958901370	958901210	
NAMUR amplifier	NAMUR	2 wires	order No.			

Nominal Voltage	18-230Vac/dc (-15/10%)	18-230Vac/dc (-15/10%)
Residual Ripple	<10%	<10%
Hysteresis	<10%	<10%
Max. Output Current	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)	3A 30 Vac- 1A 220 Vac (90 W, 360 VA)
Absorption	2,5 VA	2,5 VA
Residual Current		
Setting	sensitivity and time adj. trimmer	sensitivity and time adj. trimmer
Operation Led	Yellow	Yellow
Switching Frequency	10 Hz	10 Hz
Start Up Delay	<300 ms	<300 ms
Repeatability	<5%	<5%
Short Circuit Protection	Present (self-resetting)	Present (self-resetting)
Electric Protection	Against polarity reversal inductive loads	Against polarity reversal inductive loads
Temperature Limit	- 25 +70 C	- 25 +70 C
Protection Degree	IP65	IP65
Cable Length	2 m	2 m
Cable Section	6x0,30 mm ²	6x0,30 mm²
Housing Material	Nickel-plated brass	Nickel-plated brass
Weight - Cable Output	250 g	250 g
Weight - Connector Output		

CAPACITIVE SETTINGS & CONNECTIONS



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Sensitivity adjustment

The sensitivity adjustment must be done when the sensor is installed in a definite and steady position. The regulation must be done in a position half way between minimum and maximum, because, being air dielectric, a strong humidity variation could cause, if the regulation is very light, nuisance tripping. The sensing distance of the sensor depends on the materials to detect, on its dimension and conductivity. The distance could change according to temperature variations.

Timer adjustment

The timer trimmer allows to set a delay, on the activation (delay ON) or in the de-activation of the output, depends on the model, after the detection of the object. The output will remain active (or inactive) proportionally to the setting point of the screw, starting from 1 second up to 5 minutes.

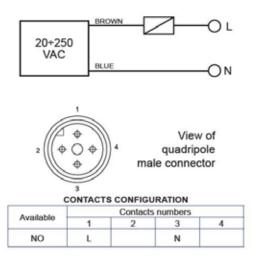
M8 4-pole NO-NC models



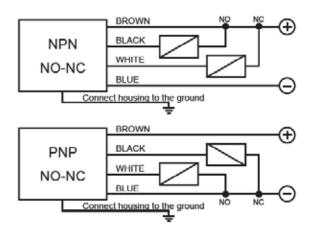
SENSITIVITY ADJUS

CONTACTS CONFIGURATION				
0.4.4		Contacts	numbers	
Output	1	2	3	4
NPN/PNP NO+NC	+	NC	-	NO

2 wires Vac models



4 wires NO-NC Vdc model



6 wires Mulivoltage models



CABLES, CONNECTORS & ACCESSORIES

2, 3, 4 wires M12, M8 connector Axial or radial 90° Shielded or unshielded Double key A.C. cable 3, 5, 7, 10, 15, 25m cable



CABLES, CONNECTORS & ACCESSORIES

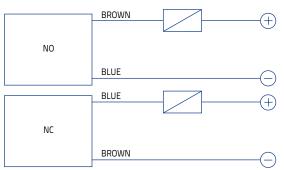
CABLES, CONNECTORS & ACCESSORIES

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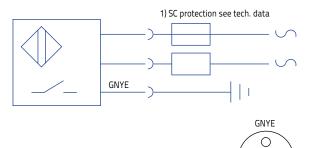
2 WIRES SENSORS

2 WIRES NO-NC



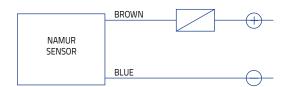
WARNING: The load can be indifferently connected in series to the blue wire or to the brown wire to simulate NPN or PNP functionning logic.

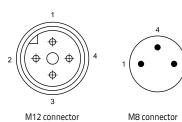
INDUCTIVE AC



Double key connector for inductive AC sensors

NAMUR





CONTACTS CONFIGURATION				
Available	Contacts num	ibers		
	1	2	3	4
NAMUR	+		-	

M12 connector

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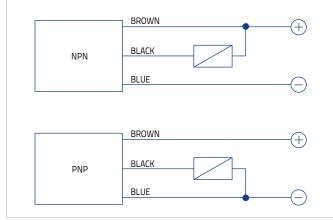
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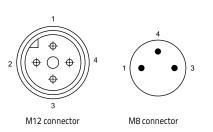
2 Φ

CONTACTS CONFIGURATION						
Available	Contacts	Contacts numbers				
Available	1	2	3	4		
NO	+		-			
NC	-		+			

3 WIRES SENSORS

3 WIRES PNP or NPN, NO or NC

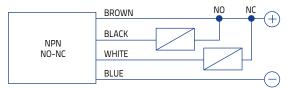


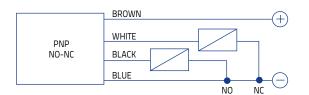


CONTACTS CONFIGURATION					
Available	Contacts	numbers			
Available	1	2	3	4	
(NO or NC)	+		-	NO/NC	

4 WIRES SENSORS

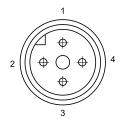
4 wires (NO+NC)





4 wires (PNP/NPN, NO/NC)

	BROWN	•-(+
NPN	WHITE	Ţ
NO	BLACK	_
	BLUE	
NPN	WHITE	l (
NC	BLACK	_
	BROWN	
	BROWN	
PNP	WHITE	J U
NO	BLACK	_
	BLUE	
		• (f
PNP	WHITE] U
NC	BLACK	_
	BROWN	



CONTACTS CONFIGURATION					
Output	Contacts num	bers			
Output	1	2	3	4	
NO + NC	+	NC	-	NO	

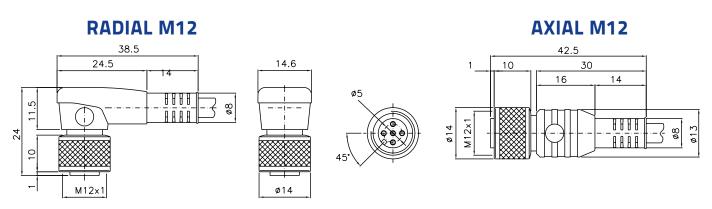
CONTACTS CONFIGURATION					
Outrast	Contacts num	bers			
Output	1	2	3	4	
NPN NO	+	NO	-	-	
NPN NC	-	NC	+	-	
PNP NO	+	+	-	NO	
PNP NC	-	+	+	NC	

CABLES, CONNECTORS & ACCESSORIES

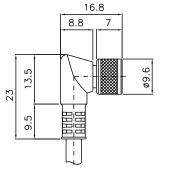
CONNECTOR & DIRECTION	WIRES	STYLE	CABLE LENGHT	MODEL	ORDER No.	
			M8	CC P4 C4 C C2	051051100	
		Grey, P.V.C.			95A251490	
M8 Connector	3	,			95A251510	
(Axial)		P.U.R.			95A251580	
					95A251600	
		Grey, P.V.C.			95A251500	
M8 Connector (Radial 90°)	3	,			95A251520	
(Raulai 90-)		P.U.R.		BLE LENGHT MODEL 3 m CS-B1-01-G-03 5 m CS-B1-01-G-05 2 m CS-B1-01-R-02 5 m CS-B1-01-R-03 3 m CS-B2-01-G-03 5 m CS-B2-01-G-05 2 m CS-B2-01-G-05 5 m CS-B2-01-R-02 5 m CS-B1-02-G-03 5 m CS-B1-02-G-03 5 m CS-B1-02-G-07 10 m CS-B1-02-G-07 10 m CS-B1-02-C-03 5 m CS-B1-02-C-05 7 m CS-B1-02-C-05 10 m CS-B1-02-C-05 10 m CS-B1-02-C-05 7 m CS-B2-02-G-03 5 m CS-B2-02-G-03 5 m CS-B2-02-C-05 7 m CS-B2-02-C-05 10 m CS-B2-02-C-05 10 m CS-B2-02-C-05 5 m CS-B2-02-C-05 10 m CS-A1-01-G-03 5 m CS-A1-01-G-03 5 m CS-A1-01-G-05 7 m CS-A2-01	95A251590	
					95A251610	
					95A251420	
		Grey, P.V.C.			95A251430	
					95A251440	
M8 Connector	4				95A251480	
(AXIAI)		P.U.R.			95A251620	
					95A251640	
		OIL resistant			95A251730	
		(CEI 2034-01)			95A251100	
					95A251450	
		Grey, PVC			95A251460	
					95A251470	
M8 Connector	4				95A251530	
(Radial 90°)		P.U.R.			95A251630	
					95A251650	
		OIL resistant	5 m	CS-B2-02-0-05	95A251720	
		(CEI 2034-01)		CS-B2-02-0-10	95A251110	
			M12			
M12 Connector (Axial)	З			3 m	CS-A1-01-G-03	95A251290
		Grey, P.V.C.	5 m	CS-A1-01-G-05	95A251300	
	2		7 m	CS-A1-01-G-07	95A251320	
			10 m	CS-A1-01-G-10	95A251340	
		Grey, P.V.C.	3 m	CS-A2-01-G-03	95A251200	
			5 m	CS-A2-01-G-05	95A251210	
M12 Connector			7 m	CS-A2-01-G-07	95A251220	
	3		10 m	CS-A2-01-G-10	95A251230	
	(Axial)48 Connector Radial 90°)412 Connector (Axial)312 Connector (Axial)312 Connector Radial 90°)3112 Connector (Axial)3112 Connector (A	Oll us sists at	3 m	CS-A2-01-0-03	95A251660	
		OIL resistant (CEI 2034-01)	5 m	CS-A2-01-0-05	95A251670	
		(10 m	CS-A2-01-0-10	95A251680	
/12 Connector with LED			5 m	CS-A2-11-G-05	95A251310	
(for PNP N.O. sensors)	3	Grey, P.V.C.	10 m		95A251330	
	2	Grey, P.V.C.			95ACC2060	
RIDEU IVITZ COTTIECTOL (AXIAI)	2	diey, P.v.c.				
12 Connector Axial Double	2	Orange, P.V.C.			95ACC8000	
eyd + PE for AC inductive	2	Utatige, P.V.C.			95ACC8010	
					95ACC8020	
					95A251380	
		Grey, P.V.C.			95A251270	
M12 Connector	4				95A251280	
					95A251390	
		P.U.R.			95A251540	
					95A251560	
					95A251360	
		Grey, P.V.C.			95A251240	
					95A251245	
M12 Connector	4				95A251260	
(Radiai 90°)		P.U.R.			95A251550	
					95A251570	
(Radial 90°)4M12 Connector (Axial)3M12 Connector (Radial 90°)3M12 Connector with LED r PNP N.O. sensors) 		OIL resistant			95A251690	
		(CEI 2034-01)			95A251700	
M12 Connector with LED					95A251400	
(for PNP N.O. sensors)	4	Grey, P.V.C.	5 m	CS-A2-12-G-05	95A251350	
(Radial 90°)			10 m	CS-A2-12-G-10	95A251370	

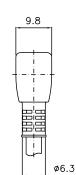
		1				
			3 m	CV-A1-22-B-03	95ACC1480	
			5 m	CV-A1-22-B-05	95ACC1490	
Shielded M12 Connector (Avial)	4	Black, P.V.C.	10 m	CV-A1-22-B-10	95ACC1500	
() UNDIY		Black, P.V.C. 10 m 1 15 m 1 25 m 1 3 m 1 Black, P.V.C. 3 m Black, P.V.C. 10 m 10 m 1 10 m 1	CV-A1-22-B-15	95ACC2070		
	(Axial) d M12 Connector Radial 90°) 4		25 m	CV-A1-22-B-25	95ACC2090	
Shielded M12 Connector (Radial 90°)		Black, P.V.C.	3 m	CV-A2-22-B-03	95ACC1540	
	4		5 m	CV-A2-22-B-05	95ACC1550	
			10 m	CV-A2-22-B-10	95ACC1560	
			3 m	CS-A1-02-U-03	95ASE1120	
			5 m	CS-A1-02-U-05	95ASE1130	
M12 Connector	4	U.L., Black, P.V.C.	10 m	CS-A1-02-U-10	95ASE1140	
(/ \/\di)			15 m	CS-A1-02-U-15	95ASE1150	
			25 m	CS-A1-02-U-25	95ASE1160	
CONNECTOR (not cabled)						
M12 Connector (Axial)	4	Black	Connector- not cabled	CS-A1-02-B-NC	G5085002	
M12 Connector (Radial 90°)	4	Black	Connector- not cabled	CS-A2-02-B-NC	G5085003	

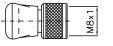
CONNECTOR



RADIAL M8

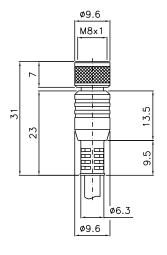








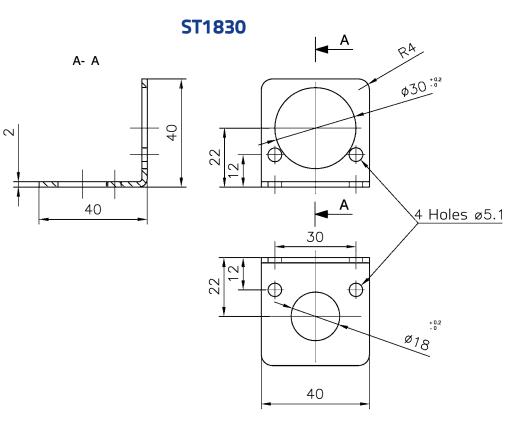
AXIAL M8



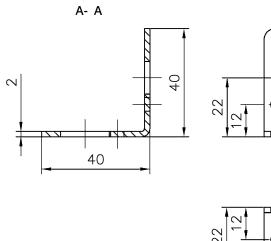
CABLES, CONNECTORS & ACCESSORIES

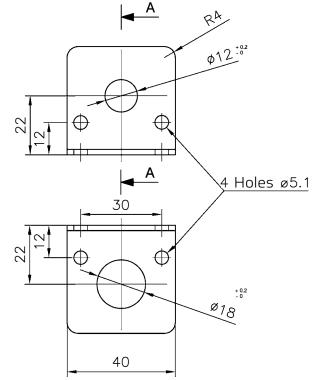
ACCESSORIES SELECTION AND ORDER INFORMATION

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M18	fixing bracket	Stainless Steel	ST1218	95ACC3340
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IS-05-A3-03	95B061021	BASIC	35
IS-05-A3-S1	95B061031	BASIC	35
IS-05-A4-03	95B065420	BASIC	35
IS-05-E3-03	95B065400	BASIC	35
IS-65-A1-03	95B064730	BASIC	10
IS-65-A1-S1	95B066050	BASIC	10
IS-65-A20-03	95B066290	NAMUR	63
IS-65-A20-S1	95B066310	NAMUR	63
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IS-65-A2-S1	95B066090	BASIC	10
IS-65-A3-03	95B064650	BASIC	10
IS-65-A3-S1	95B064970	BASIC	10
IS-65-A4-03	95B064690	BASIC	10
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IS-08-A20-03	95B066760	NAMUR	64
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IS-08-H3-S1	95B066910	BASIC	19
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15-18-A1-03	958061341	BASIC	24
IS-18-A1-S2	95B061351	BASIC	24
IS-18-A15-03	95B060770	INDUCTIVE AC	57
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	328064380	NAMUR	67
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13-10-01-32	920001/21	DASIC	24
IS-18-C20-03	95B064370	NAMUR	67
15 40 520 52	95B064390	NAMUD	
IS-18-C20-S2		NAMUR	67
	550004550		
IS-18-C2-03	95B061761	BASIC	24
IS-18-C2-03	95B061761	BASIC	24
IS-18-C2-03 IS-18-C2-S2		BASIC BASIC	24 24
IS-18-C2-S2	95B061761 95B061771	BASIC	24
IS-18-C2-S2 IS-18-C3-03	95B061761 95B061771 95B061701	BASIC	24 24
IS-18-C2-S2	95B061761 95B061771	BASIC	24
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2	95B061761 95B061771 95B061701 95B061711	BASIC BASIC BASIC	24 24 24
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03	95B061761 95B061771 95B061701 95B061701 95B061721	BASIC BASIC BASIC BASIC BASIC	24 24 24 24
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2	95B061761 95B061771 95B061701 95B061711	BASIC BASIC BASIC	24 24 24
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2 IS-18-C4-O3 IS-18-C4-O3	958061761 958061771 958061701 958061711 958061721 958061731	BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C4-S2 IS-18-C9-03	958061761 958061771 958061701 958061701 958061721 958061731 958064310	BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2 IS-18-C4-O3 IS-18-C4-O3	958061761 958061771 958061701 958061711 958061721 958061731	BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340	BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340 958062541	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340	BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340 958062541 958062551	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24 25 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2 IS-18-D2-03	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340 958062541 958062551 958062561	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24 25 25 25 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340 958062541 958062551	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24 25 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2 IS-18-D2-03 IS-18-D2-S2	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340 958062541 958062551 958062561 958062571	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2 IS-18-D2-03	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062551 958062571 958062501	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 24 25 25 25 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2 IS-18-D2-03 IS-18-D2-S2	958061761 958061771 958061701 958061701 958061721 958061731 958064310 958064340 958062541 958062551 958062561 958062571	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-C9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062551 958062571 958062501 958062511	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-03 IS-18-C3-S2 IS-18-C4-03 IS-18-C4-S2 IS-18-C9-03 IS-18-C9-S2 IS-18-D1-03 IS-18-D1-S2 IS-18-D1-S2 IS-18-D2-03 IS-18-D2-S2 IS-18-D3-03	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062551 958062571 958062501	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 24 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-C9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2 IS-18-D4-O3	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062561 958062571 958062501 958062511	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-C9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2 IS-18-D4-O3 IS-18-D4-S2	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062551 958062571 958062501 95806251 95806251	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C3-S2 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-C9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2 IS-18-D4-O3	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062561 958062571 958062501 958062511	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C4-O3 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-C9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2 IS-18-D4-O3 IS-18-D4-S2 IS-18-D4-S2 IS-18-E1-S2	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062551 958062501 958062501 95806251 95806251 95806251 958062531 958067050	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C4-O3 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-D9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2 IS-18-D4-O3 IS-18-D4-S2 IS-18-D4-S2 IS-18-E1-S2 IS-18-E0-O3	958061761 958061771 958061771 958061711 958061721 958061731 958064340 958062541 958062551 958062561 958062561 958062501 958062511 95806251 95806251 958062531 958062531	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
IS-18-C2-S2 IS-18-C3-O3 IS-18-C4-O3 IS-18-C4-O3 IS-18-C4-S2 IS-18-C9-O3 IS-18-C9-S2 IS-18-D1-O3 IS-18-D1-S2 IS-18-D2-O3 IS-18-D2-S2 IS-18-D3-O3 IS-18-D3-S2 IS-18-D4-O3 IS-18-D4-S2 IS-18-D4-S2 IS-18-E1-S2	958061761 958061771 958061701 958061711 958061721 958061731 958064310 958064340 958062541 958062551 958062551 958062501 958062501 95806251 95806251 95806251 958062531 958067050	BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC BASIC	24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
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IS-18-C2-S2 IS-18-C3-03 IS-18-C4-03 IS-18-C4-03 IS-18-C4-S2 IS-18-C4-S2 IS-18-C4-S2 IS-18-C9-03 IS-18-D1-03 IS-18-D1-03 IS-18-D2-03 IS-18-D2-03 IS-18-D2-03 IS-18-D4-03 IS-18-D4-03 IS-18-D4-03 IS-18-D4-52 IS-18-E0-03 IS-18-E0-03 IS-18-E0-32 IS-18-E0-33 IS-18-E0-33 IS-18-E0-33 IS-18-E0-33 IS-18-E0-33 IS-18-E0-33 IS-18-E0-33 IS-18-E1-32 IS-18-E1-32 IS-18-E2-33 IS-18-E2-33 IS-18-E2-32 IS-18-E2-33 IS-18-E3-32 IS-18-E4-03	958061761 958061771 958061771 958061721 958061721 958061731 958064310 958062541 958062551 958062551 958062501 95806251 95806251 95806251 95806251 95806251 958067050 958067270 958067310 958067810 95806780 95806780 95806780 95806780	BASIC BASIC	24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25
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IS-18-G6-S2	95B062711	BASIC	27
IS-18-H1-03	95B063601	BASIC	27
IS-18-H1-S2	95B063611	BASIC	27
IS-18-H2-03	95B063621	BASIC	27
IS-18-H2-S2	95B063631	BASIC	27
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IS-18-H3-S2	95B063571	BASIC	27
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IS-30-A3-03	95B061381	BASIC	28
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IS-30-C2-S2	95B061851	BASIC	28
IS-30-C3-03	95B061781	BASIC	28
IS-30-C3-S2	95B061791	BASIC	28
IS-30-C4-03	95B061801	BASIC	28
IS-30-C4-S2	95B061811	BASIC	28
IS-30-C9-03	95B064550	BASIC	28
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IS-30-D2-03	95B062641	BASIC	29
IS-30-D2-S2	95B062651	BASIC	29
IS-30-D3-03	95B062581	BASIC	29
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IS-30-E0-S2	95B067390	BASIC	30
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IS-30-F3-03	95B068050	BASIC	30
IS-30-F3-S2	95B068010	BASIC	30
IS-30-F4-03	95B068060	BASIC	30
IS-30-F4-S2	95B068020	BASIC	30
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IS-30-G1-S2	95B063691	BASIC	31
IS-30-G2-03	95B063701	BASIC	31
IS-30-G2-S2	95B063711	BASIC	31
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IS-30-H1-S2	95B063771	BASIC	31
IS-30-H2-03	95B063781	BASIC	31
IS-30-H2-S2	95B063791	BASIC	31
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IS-30-H3-S2	95B063731	BASIC	31
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CS07	958901160	basic	78
CS14K2	958901270	basic	78
CS13K2	958901250	basic	78
CS14	958901120	basic	78
CS13	958901100	basic	78
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CS32TD5	958901360	Multi-voltage (timer)	82
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