

ENG

AUTOMATION

## INDICATORS, ALARM UNITS



**GEFRAN**



Thanks to forty years of experience, Gefran is the world leader in the design and production of solutions for **measuring, controlling, and driving industrial production processes**.

We have branches in 14 countries and a network of over 80 worldwide distributors.

## QUALITY AND TECHNOLOGY

Gefran indicators are designed to directly **acquire multiple physical variables** such as temperature, pressure, displacement, force/weight, humidity, and many others via normalised signals.

## ONE STOP SHOP

Gefran offers complete display solutions for industry, providing its own sensors and ensuring maximum component compatibility and integration.

The numerous models in the catalogue offer different acquisition speeds, read resolutions, and specific functions assignable to auxiliary inputs and to alarm outputs.

## SERVICES

A team of Gefran experts works with the customer to select the ideal product for its application and to help install and configure devices ([customercare@gefran.com](mailto:customercare@gefran.com)).

Gefran offers a wide range of courses at different levels for the technical-commercial study of the Gefran product range as well as specific courses on *demand*.



## APPLICATIONS



PLASTICS



MATERIAL TESTS



WEIGHING SYSTEMS



TEST BENCHES



MACHINES FOR WOOD AND MARBLE



ROLLING LINES

## SOFTWARE GF\_eXpress

Configuration kit for Gefran instruments by means of PC (Windows environment).  
Lets you read or write all of the parameters of a single instrument via serial connection.

- A single software for all models
- Easy configuration
- Copy/paste, save recipe, trend functions
- Rapid configuration of instruments
- Saving and management of parameter recipes
- On-line trend
- Recovery of factory settings
- Custom linearization
- On-line user manual
- Easy programming with custom messages
- Easy graphics programming with setpoint programmers



# ALL GEFRAN INDICATORS FEATURE

## INPUTS

Configurable universal analogue inputs for main variables and auxiliary analogue/digital inputs for additional functions.

## KEYBOARD

Keyboard for rapid setting and diagnostics.

## LEDS

LEDs for constant display of main instrument states.

## DISPLAY

Clear and immediate display of main variables.

## IP65

Elevated front panel protection without accessories.

## OUTPUTS

Various types of outputs for alarm management, input retransmission.

## FLEXIBILITY

Connection to process via various types of sensors.

## SHARED SOFTWARE

All models use the same software.

## READY TO USE

Pre-installed software for zero start-up time.

## EASY TO USE

Immediate and intuitive parameter settings.

## UNIVERSAL MODELS

Gefran indicators and alarm units feature flexibility, simplicity, and compactness.

Available in versions measuring 72x36...48x48 and 48x96, they indicate variables such as temperature, displacement, and force.



## LIMIT SWITCH MODELS

Devices dedicated to the "Limit Switch" function, in two sizes, 48x49mm and 48x96mm, Factory Mutual (FM) certified and ready to use.



## HIGH PERFORMANCE MODELS

Gefran's 2400 series of indicators provide speed and precision, ensuring the measurement and setpoints of pressures (direct and differential), displacements, forces, temperatures, and process variables read by amplified and not amplified sensors.

### Calculation capacity

- Ability to compare input variables, engineer measurements, display the result.
- Use of results of math functions such as value of process/alarm limit/retransmission output.

### Double channel

- Two main universal analogue inputs for two simultaneous acquisitions with a single instrument.
- Direct Power Supply and acquisition of up to 6 load cells

### Easy calibration

- Calibration of the input by simply editing the sensor calibration data printed on the label.
- Standard calibration with specific menu

## INDICATORS, ALARM UNITS,

	72X36	48X48 (1/16 DIN)	48X96 (1/8 DIN)	96X96 (1/4 DIN)		
<b>HIGH-PERFORMANCE MODELS</b>	High speed High resolution		 4 Channels <b>2400</b>	 $^{\circ}\text{C}/^{\circ}\text{F}$ <b>bar</b> $0...10\text{V}$ $4...20\text{mA}$ <b>Kg</b> Potentiometers	Climatic chambers, Dosers, Pressure , Test benches, Laboratories	
<b>LIMIT SWITCH MODELS</b>	Temperature	 <b>650L</b>	 <b>1250L</b>	$^{\circ}\text{C}/^{\circ}\text{F}$ $0...10\text{V}$ $4...20\text{mA}$	Ovens, Heat treatments	
<b>MULTICHANNEL MODELS</b>			 8 Channels $^{\circ}\text{C}/^{\circ}\text{F}$ <b>bar</b> $0...10\text{V}$ $4...20\text{mA}$	 2 Channels $^{\circ}\text{C}/^{\circ}\text{F}$ <b>bar</b> $0...10\text{V}$ $4...20\text{mA}$	Plastics, Plants	
	RPM Frequency		 <b>40F96</b>	<b>Hz RPM</b>	Plastics, Various	
<b>UNIVERSAL MODELS</b>	V/Aac	 <b>4A48</b> <b>40A48</b>	 <b>4A96</b> <b>40A96</b>	<b>V/Aac</b>	Plastics, Various	
	Pressure Force Position	 <b>40B48</b>	 <b>4B96</b> <b>40B96</b>	<b>Kg</b> Potentiometers <b>bar</b> Magnetostriktives	Plastics, Packaging	
	Temperature Linear Potentiometers	 <b>4T72</b> <b>40T72</b>	 <b>4T48</b> <b>40T48</b>	 <b>4T96</b> <b>40T96</b>	$^{\circ}\text{C}/^{\circ}\text{F}$ $0...10\text{V}$ $4...20\text{mA}$ Potentiometers	Plastics, Packaging, Wood, Metal, Ovens

LEGEND:  **PC configuration**



 **Modbus TCP/RTU**

**GEFRAN**

# INDICATORS



	<b>4T 72 Indicator</b>	<b>4T 48 / 4T96 Indicator</b>
<b>Front panel dimensions</b>	72 x 36mm	48 x 48mm (1/16 DIN) 96 x 48mm (1/8DIN)
<b>Inputs</b>	<b>Number of analog inputs</b>	1
	<b>Sampling time</b>	120 - 60 - 30 - 15msec
	<b>Precision</b>	0,2% ±1 digit
	<b>Maximum resolution</b>	8000 pti
	<b>Input filter</b>	0...20,0 sec + display hysteresis 0...9,9 scale points
	<b>Zero Offset</b>	Settable by user over entire scale range
	<b>Application</b>	Indicator of physical quantities -1999...+9999 (with or without decimal point)
<b>Thermocouples</b>	<b>Types</b>	J, K, T, E, N, S, R, B, LGost, U, G, D, C, custom, with scales in °C or °F (IEC 584)
	<b>Cold junction compensation</b>	Internal, with automatic compensation
<b>Resistance thermometer</b>	<b>Types</b>	Pt100 DIN43710 (3 fili), Pt100 Japan, custom
<b>Thermistors</b>	<b>Types</b>	PTC, NTC (1K/25°C), custom
<b>Linear</b>	<b>Types</b>	0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V, possible linearization on 32 segments
	<b>Potentiometer</b>	-
		(R77 version) Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc
	<b>Pressure probe Load cells</b>	-
<b>Alternating sinusoidal (current transformer)</b>	<b>Types</b>	-
	<b>Ranges</b>	-
	<b>Application</b>	-
<b>Power supply for transmitter</b>	18Vdc ±10% non-stabilized, 50mA 1,2Vdc for potentiometer >100Ω	24Vdc ±10% non-stabilized, 50mA 15Vdc for transmitter; 50mA 1,2Vdc for potentiometer >100Ω
<b>Power supply</b>	11...27Vdc, 18...27Vac ±10% 50/60Hz, not isolated from sensor	11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz
<b>Faceplate protection level</b>		IP65
<b>Certifications</b>	CE, EAC	UL, CE, EAC

## INDICATORS, ALARM UNITS,



### 4A 48 / 4A 96

Alternating current and voltage indicator

48 x 48mm (1/16 DIN)  
96 x 48mm (1/8 DIN)

120msec

0,2%f.s. ±1 digit (per 2/20Vac, 20/50mAac, 1Aac)  
0,5% f.s. ±1 digit (for 200Vac, 500Vac, 5Aac)

8000 pti

0...20,0 sec + display hysteresis 0...9,9 scale points

Settable by user over entire scale range

Indicator of physical quantities  
-1999...+9999 (with or without decimal point)

Indicator of physical quantities  
-1999...+9999 (resolution 1 digit)  
-19990...+99990 (resolution 10 digit)  
Configurable decimal point position

Direct non-isolated input or via transformer in voltage or AC

0...2/0...20/0...200/0...500Vac 0...20/0...50/0...200mAac, 0...1/0...5Aac

Voltmeter, Ammeter

Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc  
possible linearization on 32 segments

Autorange sensitivity 1,5...3mV/V  
possible linearization on 32 segments

11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz

IP65

UL (4A96), CE, EAC

UL, CE, EAC

# ALARM UNITS



		<b>40T 72 Alarm Unit</b>	<b>40T 48 / 40T 96 Alarm Unit</b>
<b>Front panel dimensions</b>		72 x 36mm	48 x 48mm (1/16 DIN) / 96 x 48mm (1/8 DIN)
<b>Inputs</b>	<b>Number of analog inputs</b>	1	
	<b>Sampling time</b>	120 - 60 - 30 - 15msec	
	<b>Precision</b>		0,2% ±1 digit
	<b>Maximum resolution</b>	8000 pti	16000 pti
	<b>Input filter</b>	0...20,0 sec + display hysteresis 0...9,9 scale points	
	<b>Zero Offset</b>		Settable by user over entire scale range
	<b>Application</b>		Indicator of physical quantities -1999...+9999 (with or without decimal point)
<b>Thermocouples</b>	<b>Types</b>	J, K, T, E, N, S, R, B, LGost, U, G, D, C, custom with scales in °C o °F (IEC 584)	
	<b>Cold junction compensation</b>	Internal, with automatic compensation	
<b>Resistance thermometer</b>	<b>Types</b>	Pt100 DIN43710 [3-wires], Pt100 Japan, custom	
<b>Thermistors</b>	<b>Types</b>	PTC, NTC [1K/25°C], custom	
<b>Linear</b>	<b>Types</b>	0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V Possible linearization on 32 segments	
	<b>Potentiometer</b>	-	[R77 version] Input from potentiometer( min 100Ω) powered by instrument 1,2Vdc possible linearization on 32 segments
	<b>Pressure probe Load cells</b>		-
<b>Alternating sinusoidal (current transformer)</b>	<b>Types</b>	-	
	<b>Ranges</b>	-	
	<b>Application</b>	-	
<b>Digital communication</b>		-	RS485, 1200...19200 baud MODBUS RTU, CENCAL GEFTRAN
<b>Digital input</b>	<b>Type</b>	Optoisolated passive PNP isolated 1500V	
	<b>Application</b>	Tare zero, reset alarm latches, Hold, Flash	
<b>Outputs</b>		max 3	max 4
<b>Relay</b>	<b>NA</b>	max 5A, 250V resistive load cosφ = 1	
	<b>Application</b>	Alarm units, alarms, on/off control	
<b>Logic</b>	<b>Type</b>	With 18Vac/dc power supply Rout 560Ω (6V/20mA)	24V (10V min / 20mA max)
	<b>Application</b>	Interception, alarm, On/Off Control	
<b>Triac</b>	<b>Type</b>	24...240Vac ± 10% 2A max	
	<b>Application</b>	Alarm units, alarms, on/off control	
<b>Analog</b>	<b>Type</b>	4...20mA (R max 60Ω) res. 12bit, not isolated	0...10V, 4...20mA (Rmax = 500Ω) res. 12bit, not isolated
	<b>Application</b>	Retransmission of variable	
<b>Power supply sensor or transmitter</b>		18Vdc; 50mA	24Vdc ±10% non-stabilized, 50mA 15Vdc for transmitter, 50mA 1,2V for potentiometer
	<b>Power supply</b>	11...27Vdc, 18...27Vac; ±10% 50/60Hz not isolated from sensor	11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz
	<b>Faceplate protection level</b>		IP65
	<b>Certifications</b>	CE, EAC	UL, CE, EAC

## INDICATORS, ALARM UNITS,



### **40A 48 / 40A 96**

**Alternating current and voltage alarm unit**

48 x 48mm (1/16 DIN) /  
96 x 48mm (1/8 DIN)

120msec

0,2% f.s. ±1 digit (for 2/20Vac,  
20/50mAac, 1Aac) 0,5% f.s. ±1 digit  
(for 200Vac, 500Vac, 5Aac)

8000 pti

0...20,0 sec + display hysteresis 0...9,9 scale points

Settable by user over entire scale range

Indicator of physical quantities -1999...+9999 (with or without decimal point)

### **40B 48**

**Alternating current and voltage alarm unit**

48 x 48mm (1/16 DIN)

1

120 - 60 - 30 - 15msec

0,2% ±1 digit

Indicator of physical quantities -1999...+9999  
(resolution 1 digit) -19990...+99990 (resolution 10 digit)  
Configurable decimal point position

-

-

-

-

-

Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc possible linearization on 32 segments

-

Autorange sensitivity 1,5...3,3mV/V  
possible linearization on 32 segments

Direct non-isolated input or via  
transformer in voltage or AC

0...2/0...20/0...200/0...500Vac 0...20/0...50/0...200mAac,  
0...1/0...5Aac

Voltmeter, Ammeter

-

RS485, 1200...19200 baud  
MODBUS RTU

Optoisolated passive PNP Isolated 1500V

Tare zero, reset alarm latches, Hold, Flash

max 3

max 4

max 5A, 250V resistive load cosφ = 1

Alarm units, alarms

Interception, alarm, On/Off Control

11V Rout 2200 (6V/20mA)

24Vdc (10V min /20mA max)

Alarm units, alarms

Interception, alarm, On/Off Control

24...240Vac ± 10% 3A max  
(for mod.40A96)

24...240Vac ± 10% 1A max

Alarm units, alarms

Alarm units, alarms

4...20mA (R max 150Ω)  
resolution 12bit, not isolated

0..10V, 4..20mA (Rmax 500Ω)  
resolution 12bit, not isolated

Retransmission of variable

-

1,2Vdc for potentiometer, 5-10Vdc/120mA; 15-24Vdc/50mA

11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz

IP65

UL (40A96), CE, EAC

CE, EAC

UL, CE, EAC

# ALARM UNITS



		<b>40TB</b> Temperature and pressure alarm unit	<b>40F 96</b> Frequency Indicator
<b>Inputs</b>	<b>Front panel dimensions</b>	96 x 96mm (1/4 DIN)	96 x 48mm (1/8 DIN)
<b>Number of analog inputs</b>		2	1 mechanical contact, logic or alternating voltage drive
<b>Sampling time</b>		120 - 60 - 30 - 15msec	Configurable frequency: 100KHz max.
<b>Precision</b>		0,2% ±1 digit	0,1% in autorange mode ±1 digit with fixed f.s.
<b>Maximum resolution</b>		16000 pti	-
<b>Input filter</b>		0...20,0 sec + display hysteresis 0...9,9 scale points	Fixed 100Hz, may be cut out
<b>Zero Offset</b>		Settable by user over entire scale range	Indicator of frequencies 0...+9999 (automatic or settable decimal point)
<b>Thermocouples</b>	<b>Types</b>	J, K, T, E, N, S, R, B, LGost, U, G, D, C,Custom with scale in °C or °F (IEC 584)	-
<b>Cold junction compensation</b>		Internal, with automatic compensation	-
<b>Resistance thermometer</b>	<b>Types</b>	Pt100 DIN43710 (3-wires), Pt100 Japan	-
<b>Thermistors</b>	<b>Types</b>	PTC, NTC (1K/25°C)	-
<b>Linear</b>	<b>Types</b>	0...20mA, 4...20mA, 0...60mV, 0...1V, 0...5V, 0...10V Ri > 500Ω for voltage signals ≤ 1V Ri > 20KΩ for voltage signals > 1V Ri = 50Ω for current signals Possible linearization on 32 segments	-
	<b>Potentiometer</b>	Input from potentiometer (min 100Ω) powered by instrument 1,2Vdc	-
	<b>Pressure probe Load cells</b>	Autorange sensitivity 1,5...3,3mV/V	-
<b>Frequency</b>	<b>Type</b>	-	Input from inductive or capacitive proximity encoder NAMUR 2 or 3-wires limit switch. Input in alternating voltage 0,5...500V
	<b>Type</b>	-	Input frequency ranges ≤ 20KHz
	<b>Display</b>	-	Frequency meter with or whitout automatic scale and decimal point change, input frequency selectable in ranges: 9.999; 99.99; 999.9; 9999
	<b>Application</b>	-	Revolution counter or frequency meter with programmable sampling time
<b>Digital input</b>	<b>Type</b>	2 inputs from voltage-free contact	Optoisolated passive PNP isolated 1500V
	<b>Application</b>		Tare zero, reset alarm latches, Hold, Flash
<b>Outputs</b>			max 3
<b>Relay</b>	<b>NA</b>		max 5A, 250V resistive load cosφ = 1
	<b>Application</b>		Alarm units, alarms
<b>Logic</b>	<b>Type</b>	-	11V Rout 220Ω(6V/20mA)
	<b>Application</b>	-	Alarm units, alarms
<b>Triac</b>	<b>Type</b>	-	24...240V ±10% 3A max.
	<b>Application</b>	-	Alarm units, alarms
<b>Analog</b>	<b>Type</b>	2 outputs: 0-10V, 0/4-20mA is.1500V,resolut.12 bit	4...20mA (R max 150Ω) resolution 12bit non isolated
	<b>Application</b>	Configurable	Retransmission of variable
	<b>Digital communication</b>	RS485, RS232 1200...19200 baud MODBUS RTU	-
<b>Sensor or transmitter power supply</b>		1,2Vdc for potentiometer > 100Ω ;5,10Vdc max. 120A for strain gauge 15Vdc max/80mA; 24Vdc max 50mA for transmitter 2-wires	24Vdc; ±10% not stabilized 50mA max 5Vdc/120mA; 12Vdc/50mA max
	<b>Power supply</b>	100...240Vac/dc ± 10% 20...27Vac/dc ±10% 50/60Hz	11...27Vac/dc, 100...240Vac/dc; ±10% 50/60Hz
	<b>Faceplate protection level</b>		IP65
	<b>Certifications</b>		UL, CE, EAC

## INDICATORS, ALARM UNITS,



### 2400 Fast Indicator

96 x 48mm (1/8 DIN)

2 Main, 2 Auxiliaries

2 msec (ch1, ch2) 10 msec (ch3, ch4)

0,1% f.s. ±1digit (0,2% f.s. for TC)

100000 pti

0,0...20,00 sec input reading, 0,0...9,9 sec display

Settable by user over entire scale range

Indicator of pressure, forces, weight, shift, physical quantities  
-19999...+99999 settable decimal point

J, K, R,S, T with scale in °C or °F

Internal / external

Pt100 2/3-wires, scale in °C or °F

-

Strain-gauge: 5/10Vdc 200mA, 350Ω Potentiometer: ≥100Ω, Ri > 10MΩ @ 2,5Vdc  
DcLinear: 0/4...20mA (Ri = 50Ω) ≤±100mV, Ri > 10MΩ; ±1V...±10V, Ri > 2MΩ;  
Auxiliary input: 0...10V [Ri ≥ 2MΩ]; 0/4...20mA [Ri = 50Ω]  
Possible linearization on 64 segments

≥100Ω, Ri > 10MΩ

Strain-gauge 350Ω; sensitivity 1,5...4mV/V

-

-

-

2, NPN, PNP,optoisolated, configurable function

Reset, Zero, Tare, Calibration, Loc/Rem, Hold, Flash

max 4; can be expanded up to 10 relay or logic outputs with MD82

5A/250V, contacts, resistive load cosφ= 1

Alarm units, alarms

24Vdc (20mA, max.12V)

Alarm units, alarms

-

-

Isolated 1500V, 0/4...20mA, Rmax = 500Ω,±10V,  
resolution 0,03%, configurable via software

PV, retransmission, auxiliary inputs, peak

Isolated RS485 / RS232 (max 115200 baud),  
protocol MOD BUS RTU / PROFIBUS DP

Isolated 1500V, 5, 10Vdc/200mA o 24Vdc,±5% 100mA

11...27Vac/dc ±10%; 100...240Vac/dc ±10% 50/60Hz, 10VA max., internal fuse

### 650L / 1250L Limit Switch

48x48mm ( 1/16 DIN ) / 48x96mm ( 1/8 DIN )

1

120-60 ms

TC inputs:

Calibration accuracy: < +/- (0,25% of reading value in °C +0,1°C)

Cold junction accuracy: < +/- 1,5°C a 25°C room temperature

RTD input:

Calibration accuracy: < +/- (0,15% del valore letto in °C +0,4°C)

Temperature drift: < +/- (0,005% of reading value in °C +0,015°C )/°C from 25°C room temperature

256.000 pti

Digital filter 0,0...20,0 s

Settable by user over entire scale range

Max Temperature Limit Alarm, with threshold protected by password

J, K, R, S, T, C, D, B, E, L, LGOST, U, G, N, Pt20Rh-Pt40Rh, Custom

Internal, with automatic compensation

PT100, JPT100, 2/3-wires, scale in °C or °F

-

0...60 mV input impedance (Ri): > 70 kΩ

0...1 V input impedance (Ri): > 15 kΩ

0...5 V / 0...10 V input impedance (Ri): > 30 kΩ

0/4...20 mA input impedance (Ri): 50 Ω

Linearization: linear or custom

-

-

-

-

NPN, PNP (nr.1 mod. 650L) (nr.5 mod. 1250L)

Alarm acknowledge, Peak value reset, Reset time totalizer

max 4

5A/250Vac, resistive load cos-phi=1

Max temperature Limit Alarm

-

-

-

0-10V, 0/4-20mA, resolution.12 bit, Isolated from main input

-

Isolated RS485 (1200/115200 baud), Modbus RTU

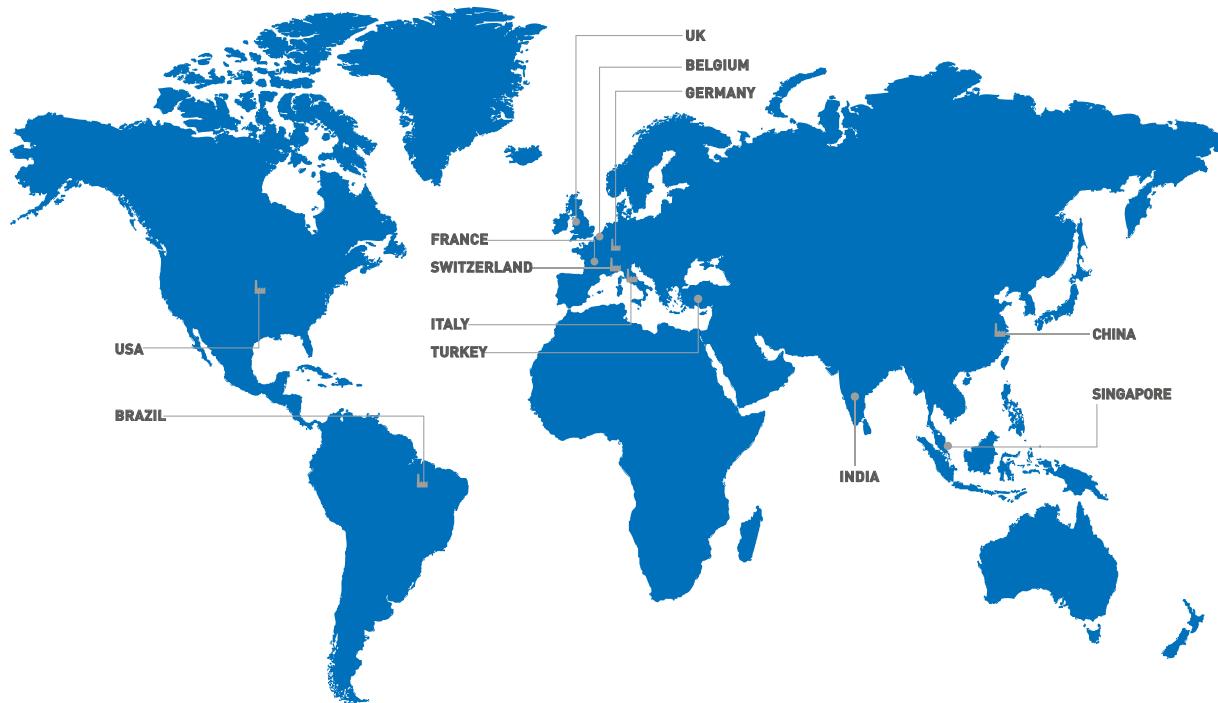
-

100...240 VAC/VDC ±10%, 50/60 Hz (on request 20...27 VAC/VDC ±10%) 5 W max

IP65

UL, CE, EAC

UL, FM, CE



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