

Associated Documentation

The corresponding datasheets, manuals, instruction manuals, declarations of conformity, EU type examination certificates, certificates, and control drawings if applicable are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

This document does not substitute the instruction manual.

For full information on the product, refer to the instruction manual and further documentation on the Internet at www.pepperl-fuchs.com.

This document is an integral part of the following documents:

- Brief instructions: DOCT-0505
- Instruction manual: DOCT-0550

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

Supplementary Documentation

Information for explosion protection: The information can be found on the Internet at www.pepperl-fuchs.com.

Manufacturer's Certificates

EU Declaration of Conformity

Declaration number: DOC-2219

EU Type-Examination Certificate

Certificate number: KEMA 01 ATEX 1149 X

List of applied standards: see EU Declaration of Conformity

Note

Further information is available on the product detail page of the devices on the internet at www.pepperl-fuchs.com.

Enter the order designation in the search field
 → Select the appropriate product → Open the product detail page → Open the **Approvals+Certificates** tab.

Manufacturer Address

Pepperl+Fuchs Group
 Lilienthalstraße 200, 68307 Mannheim, Germany
 Internet: www.pepperl-fuchs.com

Device Versions

Device type	Basic specifications	Optional specifications
LCL2	-XXX-XXXX-XX	-

The X-marked letters of the type code are placeholders for versions of the device.

The following specifications reproduce an extract from the product structure and are used to assign.

Basic specifications

Option	Housing
H	Aluminium housing F34, IP66, NEMA 4X, thread NPT1/2
I	Aluminium housing F34, IP66, NEMA 4X, thread G1/2
J	Aluminium housing F34, IP66, NEMA 4X, cable gland M20

Option	Electrical connection
E5	3-wire, PNP, 10,8 V DC to 45 V DC
WA	Relay, potential-free change-over contact, 20 AC to 253 V AC, 20 V DC to 55 V DC

Option	Additional equipment
N	without additional equipment
D	Cover with sight glass

Option	Approval
EX	ATEX II 1/2D Ex ia/tb [ia Da] IIIC T ₂₀₀ T108°C T91°C Da/Db

Optional specifications

No options specific to hazardous locations are available.

Temperature Tables

Thermal performance limits	
Temperature of the sensor (Zone 20)	Permissible process temperature T _p -40 to +80 °C
	Maximum surface temperature <ul style="list-style-type: none"> • at an ambient temperature of 40 °C: 68 °C • at an ambient temperature of 80 °C: 108 °C
Temperature of the electronics enclosure (Zone 21)	Permissible ambient temperature T _{amb} -40 to +60 °C
	Maximum surface temperature <ul style="list-style-type: none"> • at an ambient temperature of 40 °C: 71 °C • at an ambient temperature of 60 °C: 91 °C

Table 1

Degree of ingress protection	
Sensor (Zone 20)	IP66
Electronics enclosure (Zone 21)	IP66

Table 2

Connection Data

Basic specification, feature Electrical connection

Option	Electrical performance limits	Output
E5	Maximum operating voltage	10.8 to 45 V DC
	Current consumption	max. 1.5 W
	Switch output Current Switching capacity	max. 200 mA 9 W
WA	Maximum operating voltage	20 to 253 VAC, 50/60 Hz or 20 to 55 VDC
	Current consumption	max. 2 W
	Relay circuit	253 V AC/4 A/1000 VA or 253 V DC/0.2 A/50 W or 30 V DC/4 A/120 W
	Fuse	500 mA

Table 3

Mechanical performance limits	
On rope	Maximum pull-down forces at room temperature and at -40 °C: 3000 N at +80 °C: 2800 N

Table 4

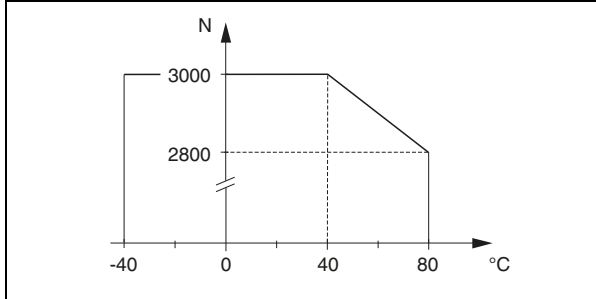


Figure 1

Cable entry: Connection compartment

Ex tb

Cable gland: Basic specification, feature Housing, option J preferably

Thread	Clamping range	Material	Sealing insert	O-ring
M20x1.5	Ø8 to 10,5 mm ¹ (Ø6.5 to 13 mm) ²	Ms, nickel-plated	Silicone	EPDM (Ø17x2)

¹ Standard

² Separate clamping inserts available

Table 5

alternatively

Thread	Clamping range	Material	Sealing insert	O-ring
M20x1.5	Ø7 to 12 mm	1.4404	NBR	EPDM (Ø17x2)

Table 6