

Installation and Commissioning

Instructions Ex Contact Protection Relay

XR-6x2 (WHG) - SIL2

Important information! Please read and follow!

Prerequisites for proper, safe operation of the contact protection relays are proper transport, storage, assembly, professional installation and commissioning, proper operation and maintenance.

These activities may only be performed by persons with the necessary expertise and qualifications. The relevant safety regulations for the installation and operation of electrical systems in potentially explosive atmospheres must be observed.

If the information contained in this manual is insufficient in any way, please contact the manufacturer.

In addition, the type examination certificate TÜV 10 ATEX 555760 or IECEx TUN 17.0037 must be observed.

Electrical Connection

The operating voltage must be within the voltage range of the XR-6x2. The electrical connection must be made with the power off. Sensors with WHG (Water Resources Act) approval must be used. Unused inputs must be wired with a 1 kOhm resistor (1 kOhm resistors are included with the relay for wiring unused inputs).

Mounting

The XR-6x2 contact protection relay is designed for quick mounting on a 35mm standard rail according to DIN EN 50 022. The maximum ambient temperature (see technical data) of the contact protection relay must not be exceeded at the installation location.

Connecting the probes

The intrinsically safe field circuits of the probes are connected to terminals E0 to E6.

The probes for channel 1 are connected to terminals **E0 and E1**.

The probes for channel 2 are connected to terminals **E5 and E6**.

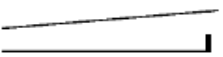
Please note:

When installing the sensor cable, ensure that it is laid at a sufficient distance from power lines. If this is not possible, using a shielded cable can reduce interference caused by coupling.

Connecting the supply voltage

Make the electrical connection according to the imprint on the housing cover to the terminals labeled A1(+) and A2(-). Refer to the rating plate for the voltage. According to EN 61010-1, an all-pole disconnection device must be provided in the building installation. This device must be accessible near the contact protection relays and marked as a disconnecting device. Overcurrent protection of the devices is provided by a fuse adapted to the supply voltage.

Connection of the potential-free output contacts

Device	Clamp	Assignment	Relais unactivated
XR-612 Channel 1	11	Common port COM	
XR-622 Channel 1	14	Normally open contact NO	
XR-612 Channel 1	21	Common port COM	
XR-622 Channel 2	24	Normally open contact NO	

The XR-612 has two potential-free normally open contacts as outputs, and the XR-622 has one potential-free normally open contact per channel.

Display elements / controls:

LED GREEN "PWR"	ON	Ready for operation
	OFF	Mains voltage failure
LED RED "ERR"	ON	Line fault
	OFF	no Line fault
LED YELLOW "OUT"	ON	Swimmer floated up
	OFF	Swimmer in basic position

Commissioning / Settings

The device is delivered ready for use and does not require any settings for commissioning.

Functional check

To check the function, the floats connected to the relay must be tested with the medium rising or falling. The switching function must be checked using the status LEDs (yellow) on the relay and on the downstream devices or warning devices for each channel.

Maintenance / Cleaning

The relay does not require any special maintenance beyond the general inspection/functional check of the electrical system.

Technical data

Electrical data:	see type examination certificate TÜV 10 ATEX 555760 bzw. IECEx TUN 17.0037
Connection voltage	DC: 20 ... 230 VDC; AC: 40 ... 230 VAC
Dimensions:	<u>XR-6x2-B</u> : 22,5 x 114,5 x 99mm; <u>XR-6x2-C</u> : 22,5 x 114,5 x 112mm
Storage temperature:	- 30 ... + 80 °C
Operating temperature:	- 20 ... + 60 °C
Operating mode:	Quiescent current operation
IP-Protection:	Clamp IP 20 / Housing IP 40

Connection example::

