C | Logline

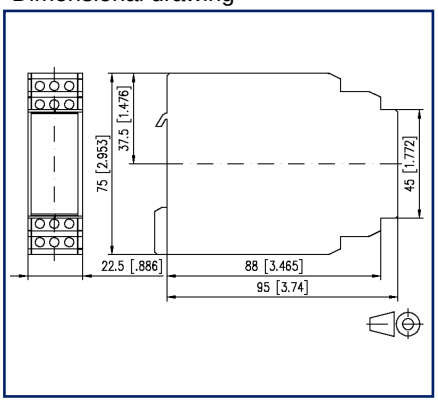
METZ CONNECT
We realize ideas

Data sheet
ENW-E12, 24 V AC

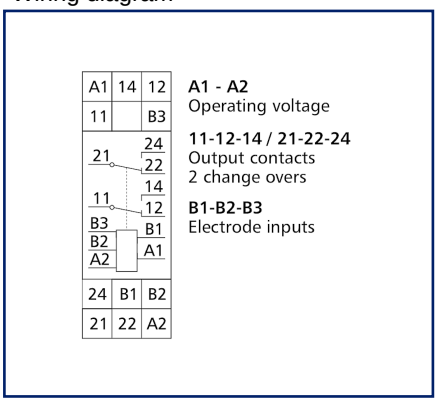
P/N 11030810
EAN 4250184121251
2024/10/24
Version: H

Illustrations

Dimensional drawing



Wiring diagram



See enlarged drawings at the end of document

Product specification

The level sensor monitors filling levels or leakage of all conductive, noncombustible media. The trigger can be adjusted by means of a proportional potentiometer. As monitor, the device works with an electrode (EO) and the ground connection (EM), e.g. for minimum and maximum levels, to protect submersible pumps from overflowing or running dry. If the surface of the fluid is subject to disturbance, we recommend another electrode (EU). As two-level controller, the device controls pumps or valves for automatically filling and emptying containers by means of the EO and EU electrodes and the EM ground connection. A container wall, being conductive to the medium, can also be used as ground connection. With 2 electrodes connected the contacts B2 and B3 must be connected with a bridge! Variant: 24 V AC

- Not intended for marketing in North America

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Technical Data

Supply	
Operating voltage	24 V AC -10% ... +10%
Frequency range	50 ... 60 Hz
Recovery time	>= 250 ms
Inputs	
Response delay	5 - 50 kOhm, adjustable
Release time typical	20 ms
Shutter release delay	<= +/- 0.01 %
Outputs	
Contacts	2 changeover contacts
Contact material	$AgSnO_2$
Switching voltage (max.)	250 V
Continuous Current	6 A
Switch-off delay	230 V~ 6 A AC1, 230 V~ 3 A AC3, 230 V~ 0,12 A, 60 V~ 0,6 A, 24 V~ 3 A, 12 V~ 4 A DC1
Switching frequency	600 switching cycles/h
Mechanical life	$3x10^7$ switching cycles
Electrical life	$2x10^5$ switching cycles
Indicator	green LED
Insulation coil - contact set	
Nominal voltage of the power supply system	230 / 400 V AC
Overvoltage category	III | II
Degree of pollution	2 | 2
Rated test voltage	4 kV | 2.5 kV
Type of insulation	basic insulation | reinforced insulation
Housing	
Dimensions	
Dimension (W x H x D)	22.5 mm x 75 mm x 95 mm
Dimension (W x H x D)	0.886 in. x 2.953 in. x 3.74 in.
Weight	300 g
Mounting style	Standard rail TH35
Mounting position	any
Apposition	without distance
Connection type	Screw type terminal blocks

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Terminal blocks	
Wire cross section solid	0.2 mm² - 2.5 mm² / AWG 22-12
Wire cross section multi	0.25 mm² - 2.5 mm² / AWG 22-12
Wire cross section with wire ferrule	0.25 mm² - 2.5 mm² / AWG 22-12
Screw torque (max.)	0.5 Nm
Stripping length (min.)	8 mm
Material	
Material - Housing	Polyamid 6.6 V0
Color	gray
Material - Terminal block	Polyamid 6.6 V0
Material - Covers	Polyamid 6.6 V0
Protection category according to IEC 60529	
Protection category - housing (acc. to IEC 60529)	IP40
Protection category - terminal blocks (acc. to IEC 60529)	IP20
Climatic Data	
Operating	
Temperature - Operating °C	0 °C - 55 °C
Temperature - Operating °F	32 °F - 131 °F
Relative humidity	max. 85 % non-condensing
Storage	
Temperature - Storage °C	-20 °C - 70 °C
Temperature - Storage °F	-4 °F - 158 °F
Power loss	
Power loss (typical) coil	2 W
Power loss (typical) Contact rate	500 mW
Classifications	
ETIM 7.0	EC001447
ETIM 8.0	EC001447
ETIM 9.0	EC001447

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Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).

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Accessories

P/N	Designation
11032401	Submersible electrode TE2
110329	Leakage sensor LKS1
11032901	Leakage sensor LKS1 brown
11032902	Leakage sensor LKS-ZD black

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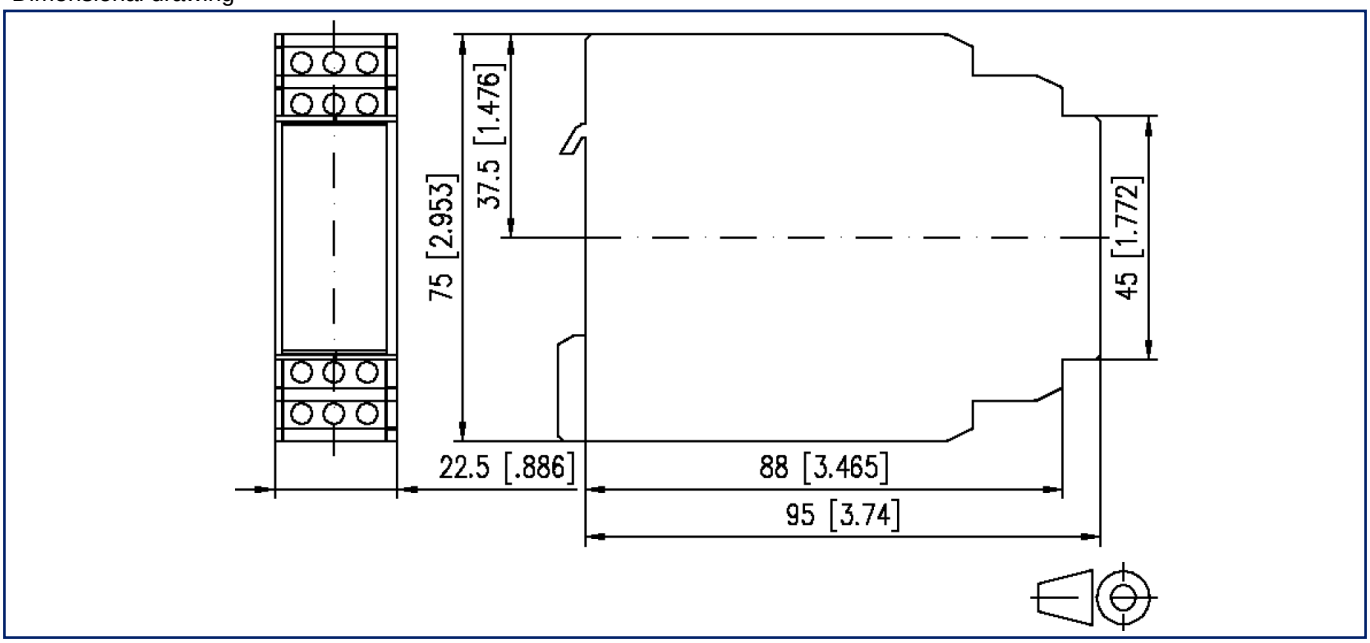
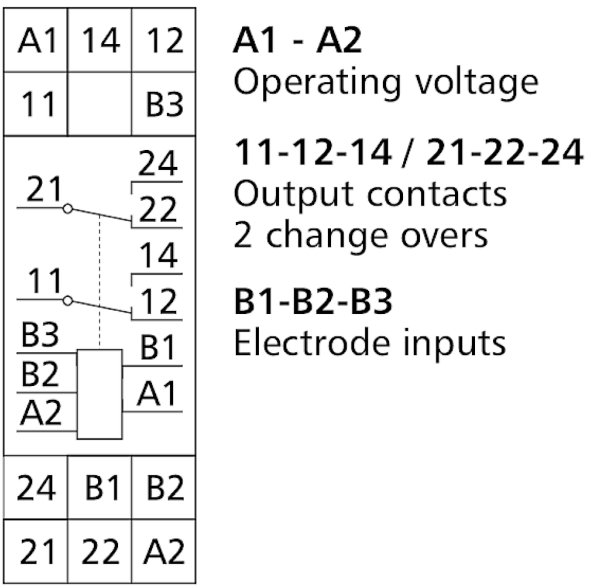


Wiring diagram



A1 - A2
Operating voltage

11-12-14 / 21-22-24
Output contacts
2 change overs

B1-B2-B3
Electrode inputs

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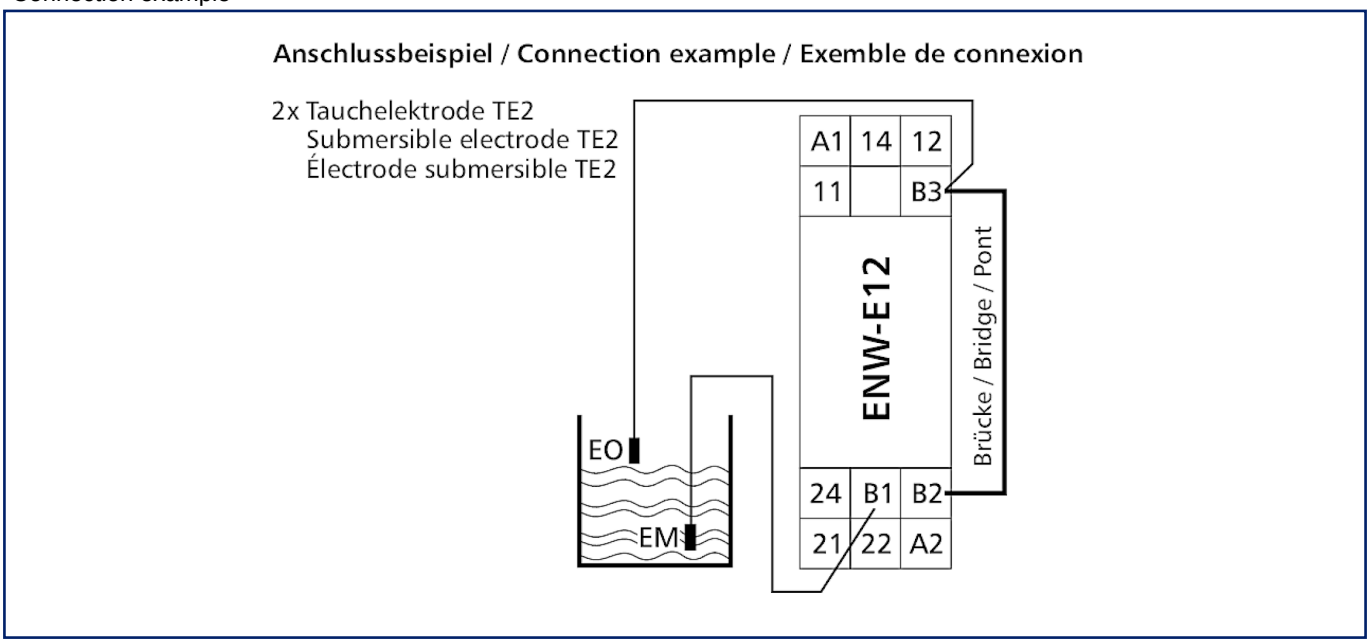
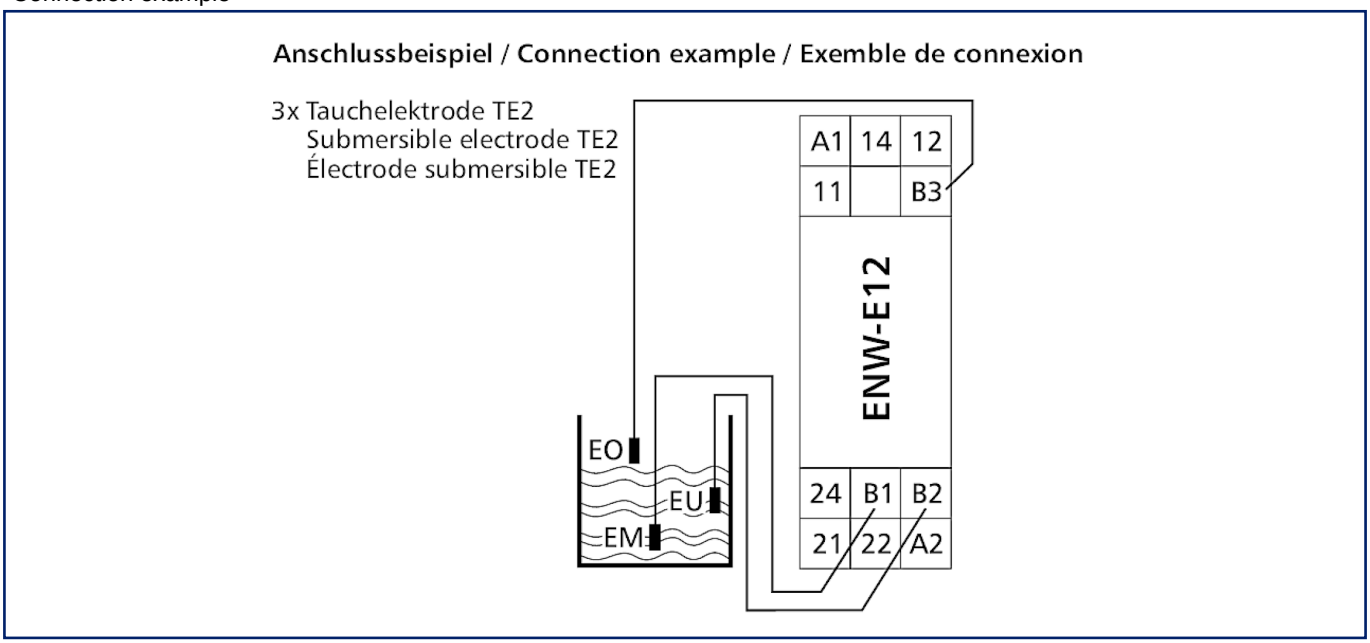
Connection example



Connection example



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Function diagram