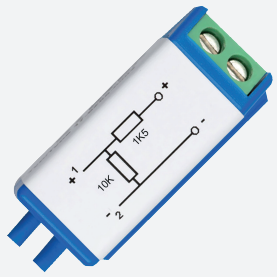
NAMUR Resistor Network

F-NR3-Ex1



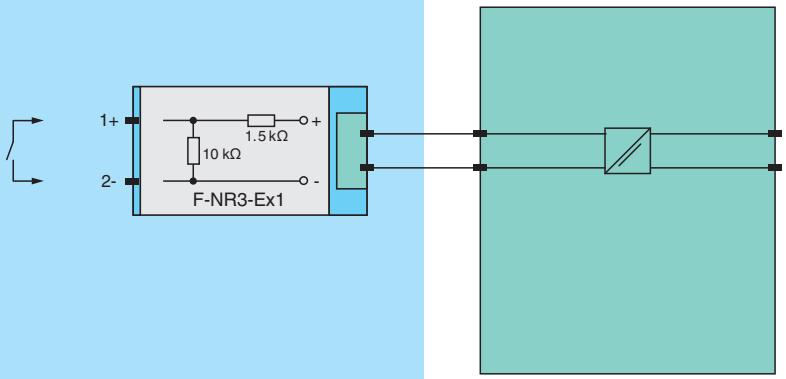
- 1-channel
- Dry contact input
- For line fault detection (LFD)

NAMUR Resistor Network

Function

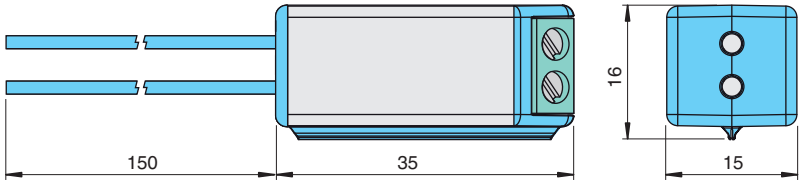
The NAMUR Resistor Network is used to monitor lead breakage and short circuit detection in switch amplifier circuits controlled by mechanical contacts.
The component is installed directly to the control contact or inside its terminal box.
The component can be used with all switch amplifiers featuring line fault detection.

Connection



Zone 1, 2

Dimensions



Technical Data

Supply		
Rated voltage	U_r	max. 30 V DC

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Technical Data

Electrical specifications	
Resistor	1.5 kΩ/0.5 W 10 kΩ/0.5 W
Input	
Suitable field devices	
Field device	volt-free contact
Error detection	lead breakage, short circuit, open switch, closed switch
Ambient conditions	
Ambient temperature	-40 ... 60 °C (-40 ... 140 °F)
Mechanical specifications	
Degree of protection	IP20
Connection	screw terminals
Core cross-section	0.5 ... 1.5 mm^2 , rigid or flexible
Cable	0.5 mm^2 x 150 mm
Mass	approx. 10 g
Dimensions	35 x 16 x 15 mm (1.38 x 0.63 x 0.59 inch)
Tightening torque	0.5 ... 0.6 Nm
Data for application in connection with hazardous areas	
Certificate	see EU Declaration of Conformity
Temperature class	T5 / T6
Voltage U_i	30 V
Power P_i	0.5 W (T5) / 0.2 W (T6 up to 50 °C) / 0.1 W (T6 up to 60 °C)
Ambient temperature	max. 60 °C (max. 140 °F)
Internal capacitance C_i	negligibly small
Internal inductance L_i	negligibly small
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

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