

**Features**

- 1-channel signal conditioner
- 24 V DC supply (loop powered)
- Fail-safe relay contact output
- Logic input 16 V DC ... 30 V DC, non-polarized
- Special version with test pulse suppression for Trident system from Triconex
- Up to SIL3 acc. to IEC 61508

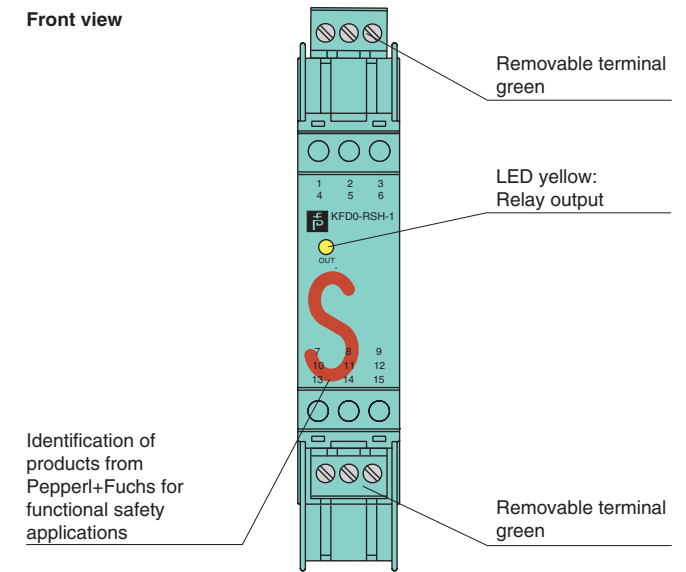
**Function**

This isolated signal conditioner is used for non hazardous area applications. It is a relay module that is suitable for safely switching applications of a control circuit. The device isolates load circuits up to 230 V and the 24 V control interface.

The output is galvanically isolated from the input and is protected against contact welding by a fuse.

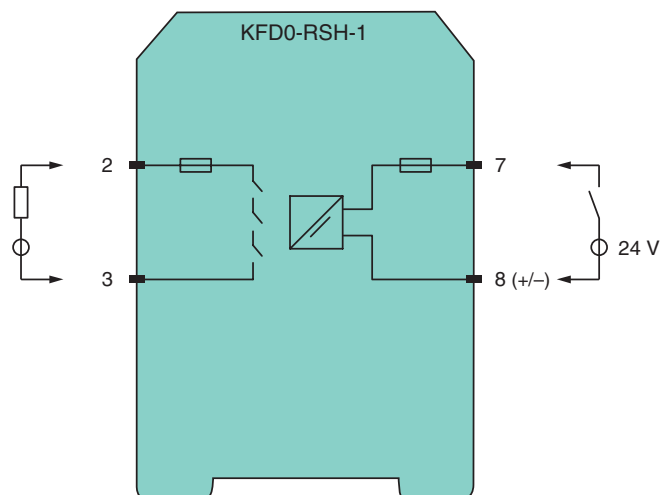
The three relays are of different design, but have a common effect on the switch output.

**Assembly**



**SIL3**

**Connection**



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<b>General specifications</b>	
Signal type	Digital output
<b>Supply</b>	
Power loss	< 1.5 W
Power consumption	< 1.5 W
<b>Input</b>	
Connection	terminals 7, 8
Pulse/Pause ratio	≥ 35 ms / ≥ 35 ms
Pulse/Pause ratio test pulse	< 10 %
Test pulse length	max. 2 ms
Signal level	0-signal: 0 ... 5 V DC 1-signal: 20 ... 30 V
Rated current I <sub>i</sub>	approx. 50 mA
<b>Output</b>	
Connection	terminals 2, 3
Contact loading	230 V AC / 2 A / cos φ 0.7; 40 V DC / 2 A resistive load
Minimum switch current	2 mA / 24 V DC
Energized/de-energized delay	max. 15 ms / max. 10 ms
Mechanical life	5 x 10 <sup>6</sup> switching cycles
<b>Transfer characteristics</b>	
Switching frequency	< 10 Hz
<b>Electrical isolation</b>	
Input/output	reinforced insulation acc. to IEC 61140, rated insulation voltage 253 V <sub>eff</sub>
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Low voltage	
Directive 2006/95/EC	EN 50178:1997
<b>Conformity</b>	
Electromagnetic compatibility	NE 21
Protection degree	IEC 60529
Protection against electric shock	IEC 61140
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
<b>Mechanical specifications</b>	
Protection degree	IP20
Mass	approx. 100 g
Dimensions	20 x 93 x 115 mm (0.8 x 3.7 x 4.5 in) , housing type B1
<b>General information</b>	
Supplementary information	Statement of Conformity, Declaration of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .