



- 2-channel
- Relay output suitable for controlling valves
- Relay output suitable for switching circuits in general
- Reliable electrical isolation of the relay contacts from each other and from the other circuits
- 24 V DC supply voltage
- Power Rail bus
- EMC acc. to NAMUR NE 21
- Spark absorbers 82Ω/22 nF

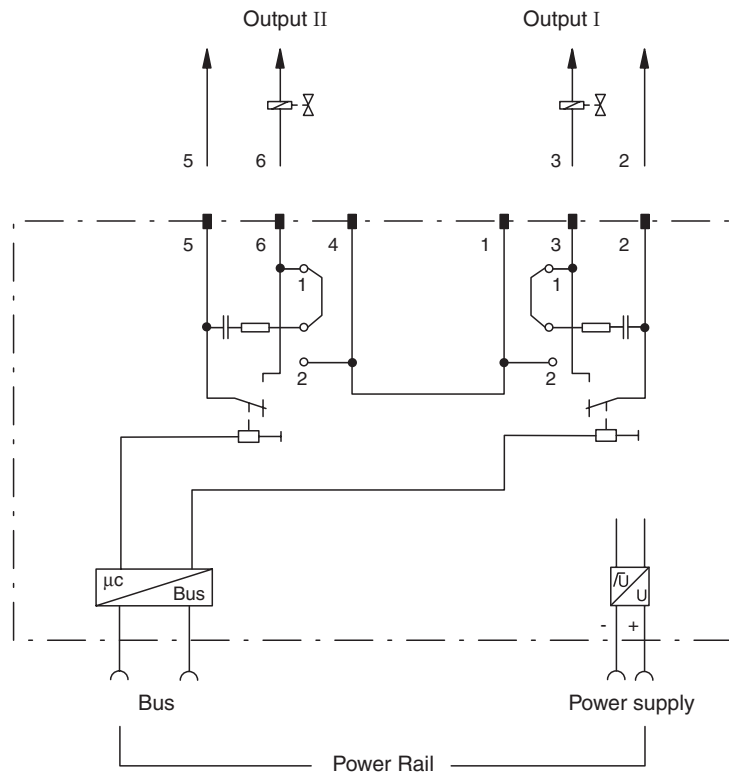
**Function**

The KSD2-RO-2-Y126867 allows for switching of 2 field devices. The change-over contacts are galvanically isolated from each other and from the circuit per DIN EN 50178 and they are suited for controlling solenoid valves, contactors and alarms. The internal electrical connection of terminal 1 and 4 simplifies the wiring of connected devices.

**Application**

Relay with changeover contacts for the control of non-intrinsically safe devices, contactors, valves as well as audible and optical alarms.

**Connection**



**Composition**

**Front view**

Housing type B1  
(see system description)

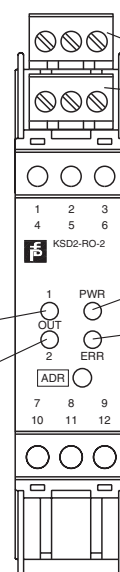
LED yellow:  
Output check channel I

LED yellow:  
Output check channel II

Removable terminals  
green

LED green:  
Power supply

LED red:  
Fault signal



<b>Supply</b>	
Connection	Power Rail
Rated voltage	20 ... 30 V DC
Ripple	< 10 %
Power loss	1 W
Power consumption	1 W
<b>Input</b>	
Connection	Power Rail
Interface	CAN protocol via Power Rail bus
<b>Output</b>	
Connection	output I: terminals 2, 3 NO output II: terminals 5, 6 NO terminals 1, 4 internal bridged
Output I and II	signal, relay
Contact loading	250 V AC / 1 A / $\cos \phi > 0.7$ ; 30 V DC / 2 A resistive load
Mechanical life	10 <sup>6</sup> switching cycles
Energized/de-energized delay	approx. 10 ms / approx. 10 ms
Spark absorber	82 $\Omega$ / 22 nF per channel, deactivateable
<b>Transfer characteristics</b>	
Switching frequency	< 10 Hz
<b>Electrical isolation</b>	
Output I and II:	basic insulation acc. to DIN EN 50178, rated insulation voltage 253 V <sub>eff</sub> AC
Output/power supply, internal bus	basic insulation acc. to DIN EN 50178, rated insulation voltage 253 V <sub>eff</sub>
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 89/336/EC	EN 61326, EN 50081-2
<b>Conformity</b>	
Electromagnetic compatibility	NE 21
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Damaging gas	acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>	
Protection degree	IP20
Mass	approx. 100 g
Dimensions	20 x 100 x 115 mm (0.8 x 3.9 x 4.5 in)
<b>General information</b>	
Supplementary information	Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

**Notes****Software functions**

Adjustable by the **PACTware™** human machine interface:

- Information on devices may be saved in PC memory

The following are separately adjustable for each channel:

- TAG numbers, 28 alphanumeric characters, can be programmed into device
- Commentary, may be saved in PC memory
- Output inversion
- Malfunction output status
  - relay de-energised
  - relay energised
  - hold last value
- Simulation
  - of the output
  - of the device diagnosis
  - of the process channel diagnosis