Features

- 1-channel isolated barrier
- 115 V AC supply
- Dry contact or NAMUR inputs
- · Relay contact output
- · Line fault detection (LFD)
- · Reversible mode of operation
- Up to SIL 2 acc. to IEC 61508/IEC 61511

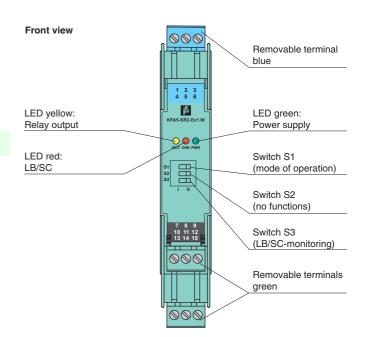
Function

This isolated barrier is used for intrinsic safety applications. It transfers digital signals (NAMUR sensors/mechanical contacts) from a hazardous area to a safe area.

The proximity sensor or switch controls a form C changeover relay contact for the safe area load. The barrier output changes state when the input signal changes state. The normal output state can be reversed using switch S1. Switch S3 is used to enable or disable line fault detection of the field circuit.

During an error condition, the relay reverts to its de-energized state and the LEDs indicate the fault according to NAMUR NE44.

Assembly

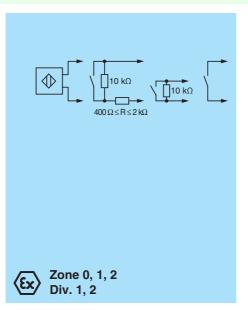


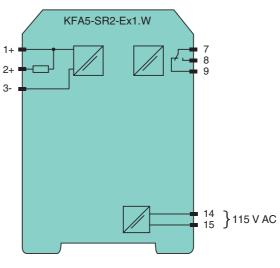




SIL 2

Connection





Open circuit voltage/short-circuit current

Switching point/switching hysteresis

Energized/De-energized delay

Transfer characteristics Switching frequency

Electrical isolation

Output/power supply **Directive conformity** Electromagnetic compatibility

General specifications

Signal type Supply Connection

Rated voltage

Rated values

Input Connection

Power consumption

Line fault detection

Pulse/Pause ratio

Contact loading

Mechanical life

Input/Output Input/power supply

Output Connection

Output

Digital Input

 U_n

terminals 14, 15

terminals 1+, 2+, 3-

≥ 20 ms / ≥ 20 ms

terminals 7, 8, 9

10⁷ switching cycles

signal, relav

< 10 Hz

103.5 ... 126 V AC , 45 ... 65 Hz

acc. to EN 60947-5-6 (NAMUR)

approx. 8 V DC / approx. 8 mA

1.2 ... 2.1 mA / approx. 0.2 mA

approx. 20 ms / approx. 20 ms

breakage $I \le 0.1 \text{ mA}$, short-circuit I > 6 mA

253 V AC/2 A/cos ϕ > 0.7; 126.5 V AC/4 A/cos ϕ > 0.7; 40 V DC/2 A resistive load

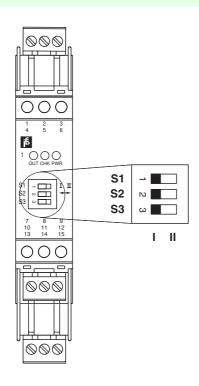
reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V_{eff}

reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V_{eff} reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 $V_{\rm eff}$

103371_eng.xml
2016-05-18
Date of issue
2016-05-18 16:22
Release date

Control drawing	116-0145
CSA approval	
Control drawing	116-0047
IECEx approval	IECEx PTB 11.0031
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperfuchs.com

Configuration



Switch position

S	Function		Position
1	Mode of operation	with high input current	I
	Output I (relay) energized	with low input current	II
2	no function		
3	Line fault detection	ON	I
		OFF	II

Operating status

Control circuit	Input signal
Initiator high impedance/ contact opened	low input current
Initiator low impedance/ contact closed	high input current
Lead breakage, lead short-circuit	Line fault

Factory settings: switch 1, 2 and 3 in position I

The maximum number of switching cycles is depending on the electrical load and may be higher when reduced currents and voltages are applied.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Pepperl & Fuchs manufacturer:

Other Similar products are found below:

RL31-54/73C/136 3RG7122-0AA00 NBB-12GM40-E1 3RG4013-3KB00 3RG4038-3KB00 3RG7134-3AA00 LD31/LV31/25/73C/76A/136
NBB4-12GM50-A2-V1 RL31-8-1200-RT/73C/136 CBB8-18GS75-E2 45018 UC2000-30GM-E6R2-V15 6GR6221-3AB00 REF-MH50
3RG4148-3CD00 INX360D-F99-I2E2-V15 MPS11HD UB2000-F42-U-V15 50FY416 NBN4-12GM50-E0 UC2000-30GM-IUR2-V15
41FR2 3RG6233-3JS00 NBN8-12GM50-E2-V1 UC-30GM-R2 M100/MV100-RT/35/76A/95/103 3RG4013-0KB00 UB400-F77-E2-V31
3RG4023-3AG33 MD17/73 NBB5-18GM50-E2 NBN4-12GM50-E2 UB800-18GM40-U-V1 UB800-18GM40-I-V1 ML100-55/95/103
KCD2-R NBB15-30GM50-E2-V1 UB2000-F42-E5-V15 REF-C110-2 ML100-8-1000-RT/95/103 3RG4200-1AB00 NBB2-V3-E2
3RG7120-3AA00 OB-150-F6-E5 REF-H50 UB800-18GM40-E5-V1 MV17/73/136 NBB4-12GM50-E2-V1 3RG6343-3AB00 NJ2-PD-US-2.062-V93