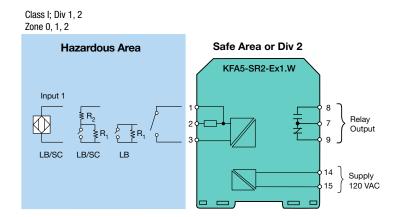
Taahuiaal Data

Technical Data		
POWER SUPPLY		Terminals 14, 15
Nominal voltage		115 VAC ± 10%
Power Consumption		1 W
INPUT (intrinsically safe)		Terminals 1+, 2+, 3-
Nominal Data		≈ 8 VDC/≈ 8 mA
Input pulse length/interval		≥ 20 ms/≥ 20 ms
Lead Breakage (LB) Monitoring		Breakage I \leq 0.1 mA, short-circuit I > 6 mA
OUTPUT (not intrinsically safe)		
Output 1 (SPDT contacts)		Terminals 7, 8, 9
Contact load		253 VAC/2 A/cos ø > 0.7; 126.5 VAC/4 A/cos ø > 0.7; 40 VDC/2 A resistive load
Mechanical life		10 ⁷ switching cycles
Energizing/de-energizing delay		≈ 20 ms/≈ 20 ms
TRANSFER CHARACTERISTICS		
Switching Frequency		< 10 Hz
CERTIFICATES		See page 127 for entity parameters
CE	c UL us	No. 116-0145
	FM	No. 116-0035
	\$₿ [±]	No. 116-0047
	(Ex) Zone 0, 1, 2	PTB 00 ATEX 2081, 🚱 II (1) G D [EEx ia] IIC
	Exida	P+F 02/4-12 R007
MECHANICAL		
Housing		Type C see page 454
Dimensions		4.65" x 0.79" x 4.53" (118 x 20 x 115 mm)
Weight		5.3 oz. (≈ 150 g)
AMBIENT TEMPERATURE		-4°F to +140°F (-20°C to +60°C)



Engineer's Guide (page 7) Accessories (page 443) Surge Suppression (page 413) Latest Info. Avail. Online

Connection Diagram



1-Channel with Relay Output

Model Number

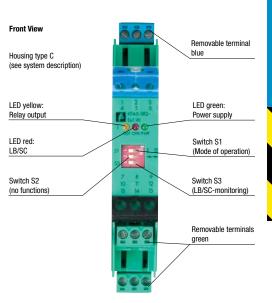
KFA5-SR2-Ex1.W

- 1-channel
- 120 VAC supply
- Suitable for Division 2 mounting
- 1 signal output with 1 form C relay
- Optional lead breakage (LB) and short circuit (SC) monitoring
- SIL 2 according to IEC 61508; SIL 3 in a redundant structure

This device is a single-channel, galvanically isolated intrinsic safety barrier that transfers discrete signals (NAMUR sensors/mechanical contacts) from a hazardous area to a safe area. The proximity sensor or switch controls a form C relay contact for the safe area load. The barrier output changes state when the input signal changes state. This output state can be reversed through the mode of operation switch S1.

For a mechanical contact, LB monitoring can be selected by placing a 10 k Ω resistor across the mechanical contact in the field and moving switch S3 to position I on the barrier. SC monitoring is added by placing a 400 Ω -2 k Ω resistor in series with the mechanical contact. NAMUR proximity sensors, however, are designed with the LB and SC functions, making external resistors unnecessary. In case of a LB/SC fault, the signal output relay reverts to the deenergized state. LB/SC monitoring can be disabled with S3 in position II.





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