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Model: KFD2-ST2-Ex1.LB



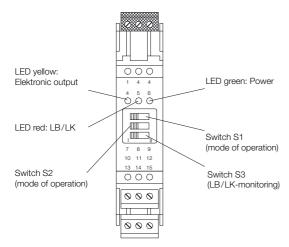
Description

The isolation switching amplifier transmits pulse signals of up to 5 kHz from hazardous areas. Sensors according to NAMUR or mechanical contacts may be used as signal transmitters. The control circuit is monitored for line interruption (LB) and line short-circuit (LK).

The input is safely isolated from the output and mains according to DIN EN 50 020.

The devices are fitted with detachable terminals that greatly simplify installation.

Front view



Order Details (Example: KFD2-ST2-Ex1.LB)

Description	Order no.
Isolation switching amplifier, 1-channel, pulse signals to 5 kHz, supply 24 V _{DC}	KFD2-ST2-Ex1.LB

Technical Details

Auxiliary power	
Nominal voltage:	2030 V _{DC}
Maximum voltage satisfying	
safety requirements:	$40 V_{DC}$
Ripple factor:	$\leq 10\%$
Rated current:	≤ 50 mA

Input

Intrinsically safe according to Namur and EN 60947-5-6 Floating voltage: approximately 8 V_{DC} Short-circuit current: approximately 8 mA 1.2 - 2.1 mA Switch point: Switching hysteresis: approximately 0.2 mA rupture I \leq 0.1 mA, Power monitoring: short-circuit I > 6 mA (Ex)II (1) GD [EEx ia] IIC Ex-protection: Maximum values according to certificate of conformity

Voltage U ₀ :	10.5 V
Current I ₀ :	13 mA
Power P ₀ :	34 mW

Allowed connected values

Protection [EEx ia and EEx ib]				
Explosion category	IIA	IIB	IIC	
Exterior capacitance	75 μF	16.8 µF	2.4 µF	
Exterior inductivity	1000 mH	740 mH	200 mH	

Output

(not intrinsically safe)	
Output I:	signal electronic output, active
Output II:	line interruption electronic output, active
Maximum voltage satisfying safety requirements:	40 V
Rated current:	100 mA, short-circuit-proof
Disabled output off-state current:	$I \le 10 \ \mu A$
Switched output voltage drop:	3.5 V for 100 mA
Acoustic frequency:	≤ 5 kHz
Dimensions:	118 x 20 x 115 mm (HxWxD)
Protection:	IP 20
Case material:	plastic
Ambient temperature:	-20 to +60°C
Weight:	approximately 150 g