

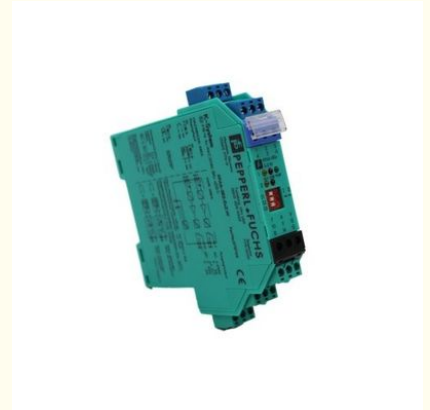
Pepperl Fuchs Switch Amplifier KFD2-SR2-Ex2.W Reversible mode of operation

Our Product Introduction

for more products please visit us on achieversinstruments.com

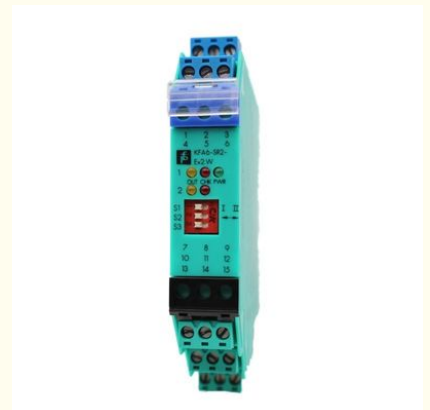
Basic Information

- Place of Origin: Germany
- Brand Name: PEPPERL FUCHS
- Model Number: KFD2-SR2-Ex2.W
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: carton
- Delivery Time: Negotiable
- Payment Terms: T/T
- Supply Ability: 100pcs per month

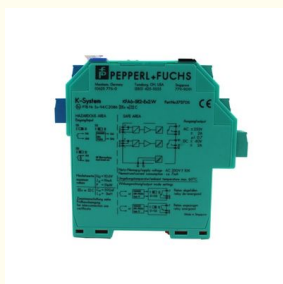


Product Specification

- Manufacturer: PEPPERL FUCHS
- Product No: KFD2-SR2-Ex2.W
- Display Elements: LEDs
- Control Elements: DIP Switch
- Height: 119 Mm
- Power: 34 MW (linear Characteristic)
- Degree Of Protection: IP20
- Certificate: TÜV 99 ATEX 1493 X
- Highlight: Pepperl Fuchs Switch Amplifier, Switch Amplifier KFD2-SR2-Ex2.W, KFD2-SR2-Ex2.W



More Images



Product Description

Pepperl Fuchs Switch Amplifier KFD2-SR2-Ex2.W

2-channel isolated barrier
 24 V DC supply (Power Rail)
 Dry contact or NAMUR inputs
 Relay contact output
 Line fault detection (LFD)
 Reversible mode of operation
 Up to SIL 2 (SC 3) acc. to IEC/EN 61508

General specifications

Signal type Digital Input
 Functional safety related parameters
 Safety Integrity Level (SIL) SIL 2
 Systematic capability (SC) SC 3
 Supply
 Connection Power Rail or terminals 14+, 15-
 Rated voltage 19 ... 30 V DC
 Ripple $\leq 10\%$
 Rated current $\leq 50\text{ mA}$
 Power dissipation $\leq 1\text{ W}$
 Power consumption $\leq 1\text{ W}$
 Input
 Connection side field side
 Connection terminals 1+, 2+, 3-; 4+, 5+, 6-
 Rated values acc. to EN 60947-5-6 (NAMUR)
 Open circuit voltage/short-circuit current approx. 8 V DC / approx. 8 mA
 Switching point/switching hysteresis 1.2 ... 2.1 mA / approx. 0.2 mA
 Line fault detection breakage $I \leq 0.1\text{ mA}$, short-circuit $I > 6\text{ mA}$
 Pulse/Pause ratio min. 20 ms / min. 20 ms
 Output
 Connection side control side
 Connection output I: terminals 7, 8, 9; output II: terminals 10, 11, 12
 Output I, II signal, relay
 Contact loading 250 V AC/2 A/cos $\phi > 0.75$; 126.5 V AC/4 A/cos $\phi > 0.75$; 40 V DC/2 A resistive load
 Minimum switch current 2 mA / 24 V DC
 Energized/De-energized delay approx. 20 ms / approx. 20 ms
 Mechanical life 107 switching cycles
 Collective error message Power Rail
 Transfer characteristics
 Switching frequency $\leq 10\text{ Hz}$
 Galvanic isolation
 Input/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 Veff
 Input/power supply reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 Veff
 Output/power supply reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 Veff
 Output/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 Veff
 Indicators/settings
 Display elements LEDs
 Control elements DIP switch
 Configuration via DIP switches
 Labeling space for labeling at the front
 Directive conformity
 Electromagnetic compatibility
 Directive 2014/30/EU EN 61326-1:2013 (industrial locations)
 Low voltage
 Directive 2014/35/EU EN 61010-1:2010+A1:2019+A1:2019/AC:2019
 Conformity
 Electromagnetic compatibility NE 21:2017, EN 61326-3-1:2017, EN IEC 61326-3-2:2018
 Degree of protection IEC 60529:1989+A1:1999+A2:2013
 Functional safety IEC/EN 61508:2010
 Input EN 60947-5-6:2000
 Ambient conditions
 Ambient temperature -40 ... 70 °C (-40 ... 158 °F)
 Mechanical specifications
 Degree of protection IP20
 Connection screw terminals
 Mass approx. 150 g
 Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) (W x H x D), housing type B2
 Height 119 mm
 Width 20 mm
 Depth 115 mm
 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001
 Data for application in connection with hazardous areas
 EU-type examination certificate PTB 00 ATEX 2080
 Marking Ex-Hexagon II (1)G [Ex ia Ga] IIC
 Ex-Hexagon II (1)D [Ex ia Da] IIIC
 Ex-Hexagon I (M1) [Ex ia Ma] I
 Input Ex ia
 Voltage 10.5 V

Current 13 mA
Power 34 mW (linear characteristic)
Supply
Maximum safe voltage 253 V AC / 125 V DC (Attention! Um is no rated voltage.)
Output
Maximum safe voltage 253 V AC (Attention! The rated voltage can be lower.)
Fault indication output
Maximum safe voltage 40 V DC (Attention! Um is no rated voltage.)
Certificate PF 08 CERT 0803
Marking Ex-Hexagon II (3)G [Ex ic Gc] IIC
Input Ex ic
Voltage 10.5 V
Current 13 mA
Power 34 mW (linear characteristic)
Certificate TÜV 99 ATEX 1493 X
Marking Ex-Hexagon II 3G Ex ec nC IIC T4 Gc
Galvanic isolation
Input/Output safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Input/power supply safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity
Directive 2014/34/EU EN IEC 60079-0:2018+AC:2020 , EN 60079-7:2015+A1:2018 , EN 60079-11:2012 , EN IEC 60079-15:2019
International approvals
FM approval
FM certificate FM19US0207X
Control drawing 116-0035
UL approval E106378
Control drawing 116-0473 (cULus)
Contact loading 250 V AC/2 A/cos ϕ > 0.75; 126.5 V AC/4 A/cos ϕ > 0.75; 30 V DC/2 A resistive load



Achievers Automation Limited



13828861501



joanna@achieversautomation.com



achieversinstruments.com

RM 509, 5/F, THE CLOUD, 111, TUNG CHAU STREET, TAI KOKTSUI, KOWLOON, HONG KONG