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

Our Product Introduction

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 ≤ 10 %
Rated current ≤ 50 mA
Power dissipation ≤ 1 W
Power consumption ≤ 1 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 ≤ 0.1 mA , short-circuit I > 6 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 φ > 0.75; 126.5 V AC/4 A/cos φ > 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 ≤ 10 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