

Pepperl Fuchs Fieldbus Barrier R4D0-FB-IA12.0 Supports Plug-In Surge Protectors

Our Product Introduction

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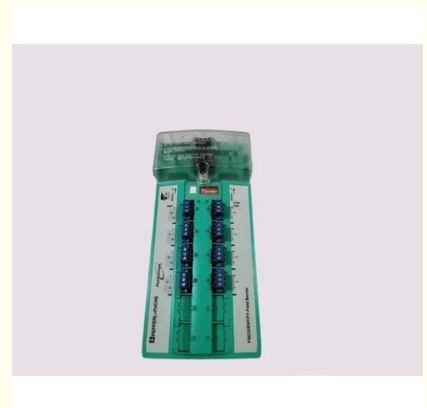
Basic Information

- Place of Origin: Germany
- Brand Name: PEPPERL FUCHS
- Model Number: R4D0-FB-IA12.0
- 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: R4D0-FB-IA12.0
- Number Of Outputs: 8, 10 Or 12
- Cable Length: 120 M
- Storage Temperature: -20 ... 60 °C (-4 ... 140 °F)
- Degree Of Protection: IP20
- Output/Output: No Isolation
- Rated Voltage: 10 ... 14 V
- Highlight: **Pepperl Fuchs Fieldbus Barrier, Fieldbus Barrier R4D0-FB-IA12.0, R4D0-FB-IA12.0**



More Images



Product Description

Pepperl Fuchs Fieldbus Barrier R4D0-FB-IA12.0 Supports plug-in surge protectors

8 ... 12 outputs Ex ia IIC, FISCO and Entity
 Advanced fault isolation and diagnostics at the spur
 FieldBarrier in Zone 1/Div. 2
 Instruments in Zone 0...1/Div. 1
 For FOUNDATION Fieldbus H1 and PROFIBUS PA
 Supports plug-in surge protectors
 Very compact, small footprint
 Designed for high reliability

General specifications

Fieldbus barrier, module for DIN rail mounting
 General specifications
 Design / Mounting Cabinet installation
 Installation in hazardous area Zone 1 / Div. 2
 Fieldbus connection
 Power dissipation see table 1
 Main cable (Trunk)
 Rated voltage 16 ... 32 V DC ,
 min. 15 V in case of brown out
 Rated current trunk IN to trunk OUT max. 2 A see table 1
 Cable shield grounding option Capacitive via 5.7 nF
 Direct
 Voltage drop trunk IN to trunk OUT 100 mV max.
 Number of couplers max. 3 per segment
 Reverse polarity protection Built-In
 Outputs
 Number of outputs 8, 10 or 12
 Number of devices per output 1
 Cable length 120 m
 Rated voltage 10 ... 14 V
 Rated current max. 43 mA at one spur ,
 max. 320 mA total current at all spurs
 Short-circuit current 53 mA , 1 mA in fallback state
 Cable shield grounding option Capacitive via 4.4 nF
 Surge protection Trunk overvoltage protection if voltage exceeds typ. 39 V, max. 41 V
 Diagnostic and Protection Features
 Fault Isolation Short Circuit Current Limitation at spurs
 Bounce Protection at spurs
 Signal inhibit at spurs
 Physical Layer Diagnostic Signal level at spurs
 Signal jitter at spurs
 Noise level at spurs
 Indicators/operating means
 Switch S1 ON: diagnostic alarms activated
 S2 ON: diagnostic warnings activated
 S3-S8: not used
 LED PWR green: Fieldbus voltage > 16 V
 LED COM/ERR yellow flashing: fieldbus communication and physical layer status ,
 red: Hardware error
 LED SPURS red: 2 Hz flashing in short-circuit condition
 Galvanic isolation
 Main wire/outputs isolation is not affected by interference according to EN 60079-11, voltage peak value 375 V
 Output/Output No Isolation
 Directive conformity
 Electromagnetic compatibility
 Directive 2014/30/EU EN 61326-1:2013
 Standard conformity
 Electromagnetic compatibility NE 21:2011
 Degree of protection IEC/EN 60529
 Fieldbus standard IEC 61158-2
 Climatic conditions IEC 60721
 Shock resistance EN 60068-2-27
 Vibration resistance EN 60068-2-6
 Ambient conditions
 Ambient temperature -40 ... 70 °C (-40 ... 158 °F)
 Storage temperature -40 ... 85 °C (-40 ... 185 °F)
 Relative humidity < 95 % non-condensing
 Shock resistance 15 g 11 ms
 Vibration resistance 1 g , 10 ... 150 Hz
 Corrosion resistance acc. to ISA-S71.04-1985, severity level G3
 Mechanical specifications
 Connection type screw terminal , pluggable or spring terminal , pluggable
 Core cross section see table 2
 Housing material Polycarbonate
 Degree of protection IP20
 Mass 2100 g

Dimensions see dimensions
 Mounting DIN rail mounting
 Data for application in connection with hazardous areas
 EU-type examination certificate BVS 13 ATEX E 121 X
 Marking Ex-Hexagon II 2(1)G Ex eb ib mb [ia Ga] IIC T4 Gb
 Ex-Hexagon II (1)D [Ex ia Da] IIIC
 Ex-Hexagon I (M1) [Ex ia Ma] I
 Main cable (Trunk)
 Maximum safe voltage U_m 253 V AC
 Outputs in accordance to FISCO and Entity
 Power 1.063 W
 Voltage 17.1 V
 Current 248.55 mA
 Inductance gas group IIC 470 μ H ,
 gas group IIB 2 mH
 Capacitance gas group IIC 367 nF ,
 gas group IIB 2.15 μ F
 Directive conformity
 Directive 2014/34/EU EN IEC 60079-0:2018+AC:2020 , EN 60079-7:2015+A1:2018 , EN 60079-11:2012 , EN 60079-18:2015
 International approvals
 CSA approval CSA 14.70004139
 Control drawing 116-0400
 Approved for Class I, Division 2, Groups A, B, C, D T4
 Class I, Zone 1, AEx/Ex e ib mb [ia Ga] IIC T4 Gb
 Class I, Zone 1, AEx/Ex e ib mb [ia IIC Da] IIC T4 Gb
 Associated equipment for Class I, Division 1 Groups A, B, C, D
 Associated equipment for Class II, Division 1 Groups E, F, G
 Associated equipment for Class III, Division 1
 IECEx approval IECEx BVS 13.0119X
 Approved for Ex eb ib mb [ia Ga] IIC T4 Gb
 [Ex ia Da] IIIC
 [Ex ia Ma] I



Achievers Automation Limited



13828861501



joanna@achieversautomation.com



achieversinstruments.com

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