

Segment Protector for Cabinet Installation

R-SP-E12



- Short circuit current limitation per output
- Segment Protector in Zone 1/Div. 2
- Instruments in Zone 1/Div. 1
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- High power on trunk and spurs



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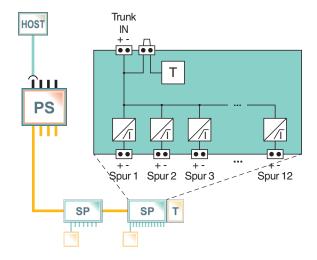




Function

The R SP E12 Segment Protector is a device coupler that connects field instruments to the segment. Flameproof (Ex d) field devices are connected to the trunk line via one output each. Trunk and spurs are certified increased safety (Ex e). Short-circuit protection ensures proper operation of the segment in case of unwanted faults at the spur. Work on devices always requires a hot work permit. The integrated fieldbus terminator features high-availability design and is selectable. Connectors are fixed screw terminals. Any grounding and shielding concept is possible based on FieldConnex enclosure solutions. Customizable housings host one or more Segment Protectors for different output counts.

Connection



Zone 1/Div. 2

Technical Data

max. 52 mA
max. 9 mA
max. 1.3 V
selectable 100 Ω integrated
trunk, spurs overvoltage protected if voltage exceeds typ. 39 V, max. 41 V
green: Fieldbus voltage > 10 V
red flashing: short-circuit
yellow: bus activity
yellow: termination activated
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EN 61326-1:2006
NE 21:2006
IEC 60529
IEC 61158-2
EN 60068-2-27
EN 60068-2-6
-40 70 °C (-40 158 °F)
-40 85 °C (-40 185 °F)
95 % non-condensing
15 g , 11 ms
5 g , 10 150 Hz
screw fixing
max, 2.5 mm ² / AWG 12-24
Polycarbonate
216 mm
100 mm
50 mm
IP20
800 g
DIN rail mounting
resin filled
ardous areas
PTB 04 ATEX 2100 X
≤ 35 V
100 A
EN 60079-0:2012 , EN 60079-7:2007 , EN 60079-18:2009
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IECEx PTB 05.0010X
Ex me II T4
DNV A-14038
EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity Attestation of Conformity and instructions have to be observed where applicable. Fo information see www.pepperl-fuchs.com.

5PEPPERL+FUCHS

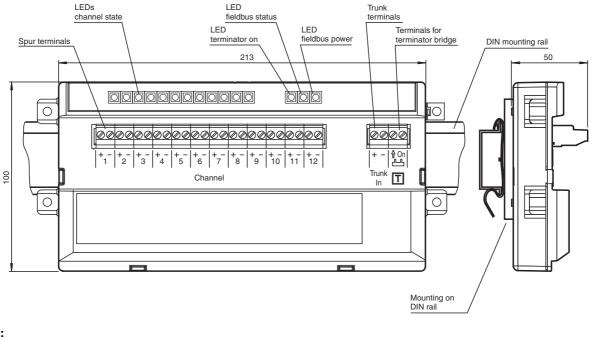
Matching System Components



F.SPE.P**.A**.1.0.***.***.



F.SPE.S**.A**.1.0.***.***.



Note:

For the connection of the cable shields earth bars are to be used in the enclosure. With metallic enclosures the appropriate insulation has to be ensured.

Installation

see manual