

Features

- 4 ... 12 outputs Ex ic, Ex nL (FISCO or Entity)
- Glass fiber reinforced polyester, impact resistant, IP66
- Configurable cable entries for trunk and spurs
- International approvals
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- Installation in Zone 2

Function

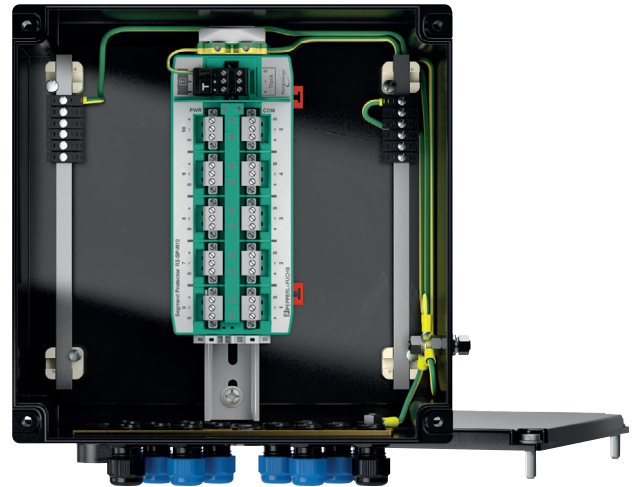
This Segment Protector Junction Box is a device coupler with FieldConnex® Segment Protectors for Zone 2. Devices can be located in Zone 2. The number of outputs and size can be selected.

Glass fiber-reinforced polyester provides corrosion resistance and is light weight. The surface resistance avoids electrostatic charge.

Trunk and spur entries can be selected individually from a range of cable glands and stopping plugs. A breather is included by default. Tag plate, grounding bar, surge protection for the trunk, and bus termination are available as options.

This junction box is available pre-wired, with all accessories, for fast ordering, delivery, site installation, and commissioning.

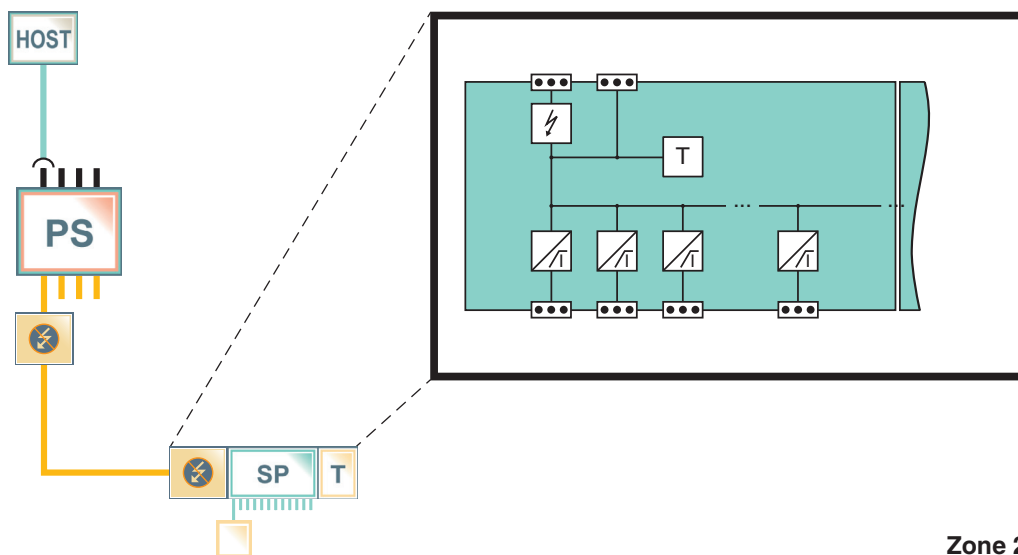
Assembly



CE



Connection



Zone 2

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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General specifications	
Design / Mounting	Outside installation
Installed components	Segment Protector R2-SP-N** For technical data on installed electronic component see data sheet.
Conformity	
Degree of protection	EN 60529
Impact resistance	EN 60079-0
Ambient conditions	
Ambient temperature	-30 ... 55 °C (-22 ... 131 °F) , (extended temperature range available on request)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Impact resistance	7J
Mechanical specifications	
Enclosure cover	detachable cover with retaining screws
Degree of protection	IP66
Cable entry	cable gland and stopping plug options see separate table
Material	
Housing	polyester , impact resistant, glass fiber reinforced
Surface	black molded finish (RAL 9005)
Surface resistance	< 10 ⁹ Ω
Water absorption	< 6 %
Seal	silicone , one piece
Grounding plate	brass
Material thickness	grounding plate: 3 mm
Dimensions	(W x H x D) 271 x 271 x 136 mm (1 x R2-SP-N**) 544 x 271 x 136 mm (2 x R2-SP-N**)
Mounting	thru-holes Ø6.5 mm
Grounding	grounding bolt M6 , Stainless steel
Data for application in connection with hazardous areas	
Statement of conformity	PF 08 CERT 1278 (assembled Junction Box) , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection	⊕ II 3G Ex nA [nL] [ic] IIC T4
Directive conformity	
Directive 94/9/EC	EN 60079-0:2006, EN 600079-14:2003, EN 60079-15:2005, EN 60079-11:2007
International approvals	
IECEx approval	IECEx PTB 09.0016 , suitable Junction Box on request
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

Cable gland versions

Type	Cable gland					Stopping plug		
	GP2	GB2	GS2	GN2	GA2	H02	H03	H04
Mechanical specifications								
Protection degree	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Material	polyamide	nickel-plated brass	stainless steel	nickel plated brass	stainless steel	polyamide	nickel-plated brass	stainless steel
Thread	M20	M20	M20	M20	M20	M20	M20	M20
Inner sheath (mm)	–	–	–	7 ... 12	7 ... 12	–	–	–
Outer sheath (mm)	5.5 ... 13	3 ... 12	3 ... 12	10 ... 16	10 ... 16	–	–	–
Cable								
Suitable for armored cable	no	no	no	yes	yes	–	–	–
Data for application in conjunction with hazardous areas								
Type of protection	Ex e	Ex de	Ex de	Ex de	Ex de	Ex e	Ex de	Ex de

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Type code/model number

Electronic type

F.SP4 Enclosure solution for R2-SP-N**

Enclosure material

P Glass-fiber reinforced polyester, IP66

Number of installed devices

- 12.B04** 1 x R2-SP-N4 ¹
- 12.B06** 1 x R2-SP-N6 ¹
- 12.B08** 1 x R2-SP-N8 ¹
- 12.B10** 1 x R2-SP-N10 ¹
- 12.B12** 1 x R2-SP-N12 ¹
- 20.B16** 2 x R2-SP-N8
- 20.B20** 2 x R2-SP-N10
- 20.B24** 2 x R2-SP-N12

Fieldbus type

1 Suitable for FOUNDATION Fieldbus H1 and PROFIBUS PA

Spur terminals

0 Spurs directly wired to R2-SP-N**

Trunk entries

Spur entries

- GP2** **GP2** Cable gland M20, polyamide, Ex e, IP66
- GB2** **GB2** Cable gland M20, nickel plated brass, Ex e, IP66
- GS2** **GS2** Cable gland, M20, stainless steel, Ex e, IP66
- GN2** **GN2** Cable gland M20, nickel plated brass, Ex de, IP66, for armoured cable
- GA2** **GA2** Cable gland M20, stainless steel, Ex de, IP66, for armoured cable
- H02** **H02** Stopping plug M20, polyamide, Ex e, IP66
- H03** **H03** Stopping plug M20, nickel plated brass, Ex de, IP66
- H04** **H04** Stopping plug M20, stainless steel, Ex de, IP66

Tag plate

- A** Tag plate, traffolyte, 120 x 30 mm
- B** Tag plate, stainless steel, 120 x 30 mm
- 0** No tag plate

Grounding bar

- 1** Grounding bar 10 x 3 mm, equipped with grounding terminals
- 0** No grounding bar installed

Surge protection Trunk

- 3** Surge protection for Trunk FS-LBF-D1.32 installed ¹
- 0** No surge protection

External terminator

0 Fieldbus terminator installed at T-Connector of R2-SP-N**

¹ In conjunction with versions 12.B** surge protection is available on request.

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