

Features

- 4 ... 12 outputs Ex ic (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

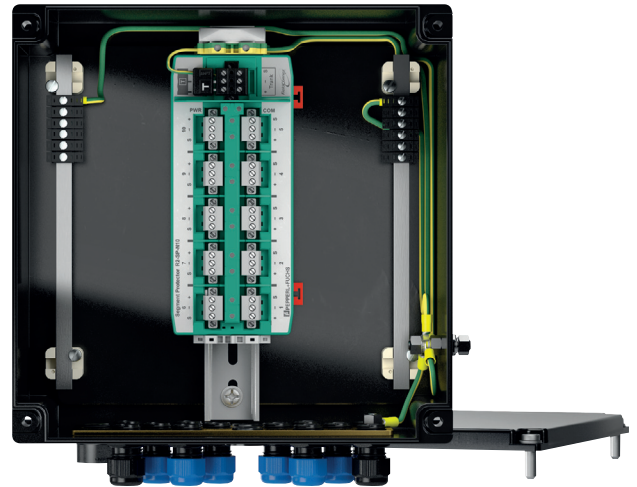
This Segment Protector Junction Box is a device coupler with FieldConnex® Segment Protectors for Zone 2. Devices can be located in Zone 2. The number of outputs and size can be selected.

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

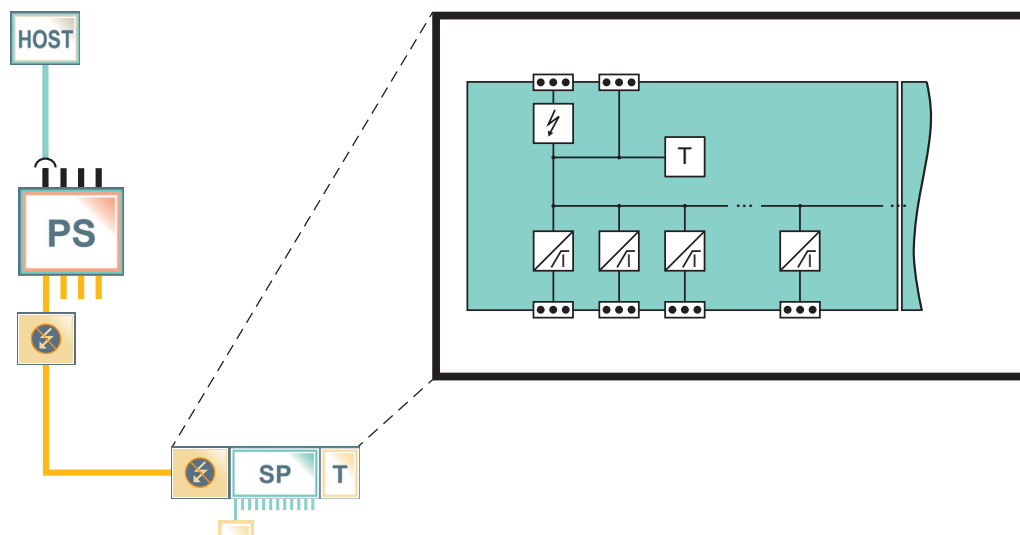
Trunk and spur entries can be selected individually from a range of cable glands and stopping plugs. A breather is included by default. Tag plate, grounding bar, surge protection for the trunk, and bus termination are available as options.

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

Assembly



Connection



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General specifications	
Design / Mounting	Outside installation
Installed components	Segment Protector R2-SP-IC* 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 mm x 271 mm x 136 mm (1 x R2-SP-IC*) , 544 mm x 271 mm x 136 mm (2 x R2-SP-IC*)
Mounting	thru-holes Ø6.5 mm
Grounding	grounding bolt M6 , Stainless steel
Data for application in connection with hazardous areas	
Certificate	PF 16 CERT 3134 X (assembled Junction Box) , for additional certificates see www.pepperl-fuchs.com
Marking	⊕ II 3G Ex nA [ic] IIC T4 Gc ⊕ II 3D Ex tc [ic] IIIC T135°C Dc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012 , EN 60079-15:2010 , EN 60079-31:2014
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								
Degree of protection	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)	-	-	-	6 ... 11	6 ... 11	-	-	-
Outer sheath (mm)	6 ... 12	4 ... 12	4 ... 12	8 ... 15	8 ... 15	-	-	-
Cable								
Suitable for armored cable	no	no	no	yes	yes	-	-	-
Data for application 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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Type Code/Model Number

Electronic type

F.SP5 Enclosure solution for R2-SP-IC**

Enclosure material

P Glass-fiber reinforced polyester, IP66

Number of installed devices

- 12.B04** 1 x R2-SP-IC4
- 12.B06** 1 x R2-SP-IC6
- 12.B08** 1 x R2-SP-IC8
- 12.B10** 1 x R2-SP-IC10
- 12.B12** 1 x R2-SP-IC12
- 20.B16** 2 x R2-SP-IC8
- 20.B20** 2 x R2-SP-IC10
- 20.B24** 2 x R2-SP-IC12

Fieldbus type

1 Suitable for FOUNDATION Fieldbus H1 and PROFIBUS PA

Terminals

- 0** Screw terminals
- 3** Spring terminals

Trunk entries

Spur entries

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

Tag plate

- D** Stainless steel, 95 x 20 mm
- C** Plastic, 95 x 20 mm
- 0** No tag plate

Grounding bar

- 2** Grounding bar, isolated
- 1** Grounding bar, connected to PA
- 0** No grounding bar

Surge protection

- D** Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.1) and spurs with diagnostics (SCP-LBF-IA1.36.IE.1)
- C** Surge protection trunk (TCP-LBF-IA1.36.IE.0) and spurs with diagnostics (SCP-LBF-IA1.36.IE.1)
- B** Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.1) and spurs (SCP-LBF-IA1.36.IE.0)
- 9** Surge protection trunk (TCP-LBF-IA1.36.IE.0) and spurs (SCP-LBF-IA1.36.IE.0)
- 7** Surge protection spurs with diagnostics (SCP-LBF-IA1.36.IE.1)
- 6** Surge protection trunk with diagnostics (TCP-LBF-IA1.36.IE.1)
- 5** Surge protection spurs (SCP-LBF-IA1.36.IE.0)
- 4** Surge protection trunk (TCP-LBF-IA1.36.IE.0)
- 0** No surge protection

Additional accessories

- 5** Enclosure leakage sensor (ELS-1) + document pocket (A4)
- D** Document pocket (A4)
- L** Enclosure leakage sensor (ELS-1)
- 0** No accessory

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