

Features

- Intrinsically safe (Ex ic)/non-incendive outputs
- Glass fiber reinforced polyester, NEMA 4x
- Configurable cable entries for trunk and spurs
- Packaged solution
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- Installation in Class I, Division 2

Function

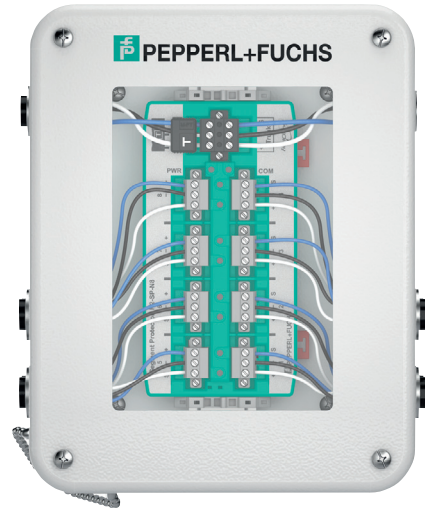
This Segment Protector Junction Box is a device coupler with FieldConnex® Segment Protectors for Zone 2/Div 2. Devices can be located in Zone 2/Div 2. The number of outputs and size can be selected.

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

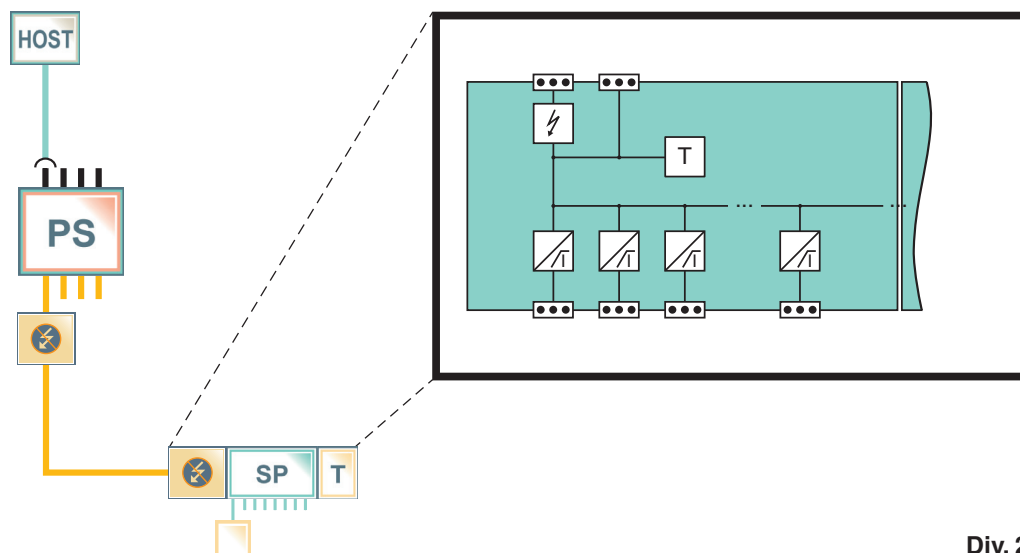
Trunk and spur entries can be selected individually from a range of cable glands and quick disconnects.

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

Assembly



Connection



Div. 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-IC* For technical data on installed electronic component see data sheet.
Ambient conditions	
Ambient temperature	-40 ... 70 °C (-40 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	95 % , no moisture condensation
Mechanical specifications	
Enclosure cover	detachable cover with stainless steel safety chain
Degree of protection	NEMA 6P, NEMA 12
Cable entry	cable gland and stopping plug options see separate table
Material	
Housing	polyester , impact resistant, glass fiber reinforced
Seal	Polyurethane (PUR) , one-piece
Material thickness	enclosure body: 4 mm enclosure cover: 3 mm
Dimensions	(W x H x D) 191 x 244 x 121 mm
Mounting	Flanged mounting Ø8 mm holes

Connection type

Type	Cable gland			Plug connection		Conduit connection 1/2CB
	CGP	CGB	CGS	7/8S	M12S	
Mechanical specifications						
Protection degree	IP67	IP67	IP67	IP67	IP67	IP67
Material	polyamide	nickel-plated brass	stainless steel	stainless steel	stainless steel	nickel-plated brass
Thread	M16	M16	M16	M16	M16	M16
Outer sheath (mm)	5 ... 10	5 ... 10	5 ... 10	7/8" thread	M12	½" NPT conduit
Cable						
Suitable for armored cable	no	no	no	no	no	no

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Type code/model number

Electronic type

SPJB Enclosure solution for R2-SP-N**

Number of spurs

- 4** 4 spurs
- 6** 6 spurs
- 8** 8 spurs
- 10** 10 spurs
- 12** 12 spurs

Enclosure material

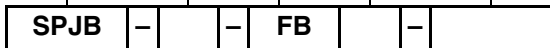
FB Glass-fiber reinforced polyester, NEMA 4X, NEMA 6P, NEMA 12

Window

- No window
- W** With window

Connection type

- NF** No fitting
- CGP** Cable gland M16, polyamide
- CGB** Cable gland M16, nickel-plated brass
- CGS** Cable gland M16, stainless steel
- 7/8S** Plug connection M16, stainless steel, 7/8" thread
- M12S** Plug connection M16, stainless steel, M12 thread
- 1/2CB** Conduit connection M16, nickel-plated brass, 1/2" NPT conduit adapter



Predefined characters indicate pre-set attributes.