

# Segment Protector Junction Box

F.SPE.T\*\*.A\*\*.1.0.\*\*\*.\*\*\*.\*\*\*\*



- Connection of Ex d certified devices
- Brushed enclosure, IP66
- Configurable cable entries for trunk and spurs
- International approvals
- For FOUNDATION Fieldbus H1 and PROFIBUS PA
- Installation in Zone 1

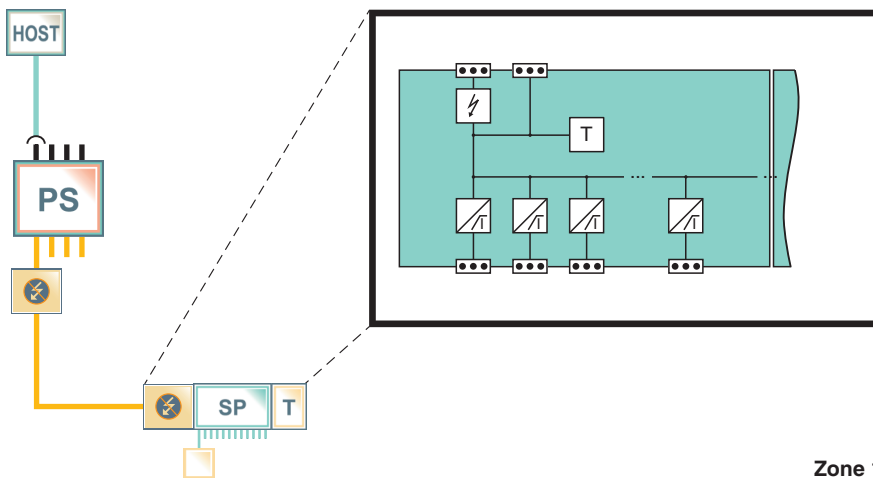
## Segment Protector Junction Box, Brushed Stainless Steel



### Function

This Segment Protector Junction Box is a device coupler with FieldConnex® Segment Protectors for Zone 1. Devices can be located in Zone 1. The number of outputs and size can be selected. Brushed stainless steel 316L provides high corrosion and impact resistance at a very wide temperature range. Trunk and spur entries can be selected individually from a wide range of cable glands and stopping plugs. A breather is included by default. Tag plate, grounding bar, surge protection for the trunk are available as options. This junction box is available pre-wired, with all accessories, for fast ordering, delivery, site installation, and commissioning.

### Connection



Zone 1

### Technical Data

General specifications	
Design / Mounting	Outside installation
Installed components	Segment Protector R-SP-E12 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	-40 ... 60 °C (-40 ... 140 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation

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

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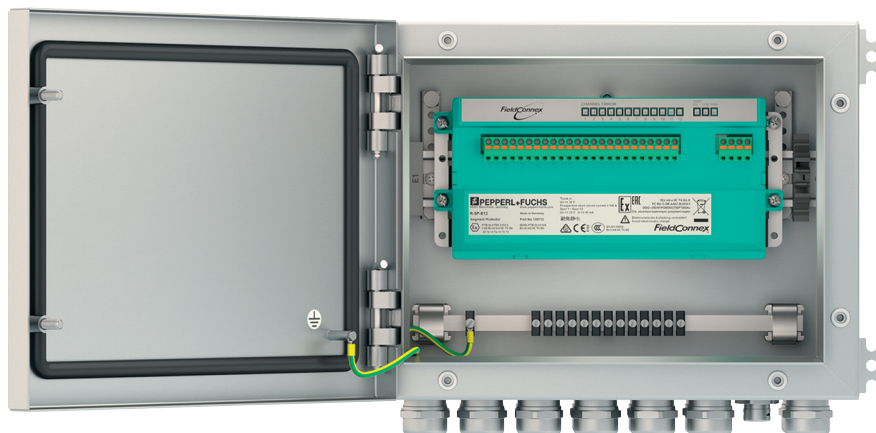
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## Technical Data

Impact resistance	7J
<b>Mechanical specifications</b>	
Enclosure cover	Hinged door with captive retaining screws
Degree of protection	IP66
Cable entry	cable gland and stopping plug options see separate table
<b>Material</b>	
Housing	Stainless steel 1.4404 / AISI 316L
Surface	brushed
Seal	Silicone, fire-resistant, one piece, foamed
Material thickness	enclosure body, enclosure cover, mounting plate: 1.5 mm
Dimensions	(W x H x D) 300 x 230 x 160 mm (1 x R-SP-E12) 480 x 380 x 220 mm (2 x R-SP-E12)
Mounting	thru-holes Ø 7 mm
Grounding	grounding bolt M6 , brass, nickel-plated
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	PTB 07 ATEX 1061 X (assembled Junction Box) , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Marking	Ⓜ II 2G Ex db eb mb IIC T4 Gb Ⓜ II 2D Ex tb IIIC T135°C Db Note: The marking is based on the maximum value and can be reduced depending on the selected options accordingly.
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 , EN 60079-1:2014+AC:2018 , EN IEC 60079-7:2015+A1:2018 , EN 60079-11:2012 , EN 60079-18:2015+Cor.2018 , EN 60079-31:2014
<b>International approvals</b>	
IECEX approval	IECEX PTB 07.0036 X , suitable Junction Box on request
INMETRO approval	TÜV 13.1143
<b>General information</b>	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

## Assembly



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## Type Code

1	2	3	4	5	6	7	8	9	10	11	12							
F.SPE	.	T**	.	A	**	.	1	.	0	.	***	.	***	.	*	*	0	*

Example:

F.SPE.T30.A24.1.0.H02.H02.A100

1	Electronic type
F.SPE	Segment Protector Junction Box

2	Enclosure material - W x H x D
T12	Stainless steel 3.16 - brushed - 300 x 230 x 160 mm (R-SP-E12)
T30	Stainless steel 3.16 - brushed - 480 x 380 x 220 mm (2 x R-SP-E12)

3	Certification
A	ATEX (Zone 1 + Zone 21)
G	ATEX + IECEx (Zone 1 + Zone 21)

4	Channels
12	12 channels
24	2 x 12 channels

5	Fieldbus type
1	Suitable for FOUNDATION Fieldbus H1 and PROFIBUS PA

6	Spur terminals
0	None

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

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


9	Tag plate
0	None
A	Plastic, 120 x 30 mm
B	Stainless steel, 120 x 30 mm
C	Plastic, 95 x 20 mm
D	Stainless steel, 95 x 20 mm

10	Grounding bar
0	None
1	With grounding bar, connected to equipotential bonding
2	With grounding bar, isolated

11	Surge protection
0	No surge protection

12	Additional accessories
0	None
T	External fieldbus terminator (FS-FT-Ex1.D.IEC)

## Matching System Components

	<b>R-SP-E12</b>	Segment Protector for Cabinet Installation
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## Product Versions

### Cable Gland Versions

Type	Cable gland					Stopping plug		
	GP2	GB2	GS2	GN2	GA2	H02	H03	H04
<b>Mechanical specifications</b>								
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	–	–	–
<b>Cable</b>								
Suitable for armored cable	no	no	no	yes	yes	–	–	–
<b>Data for application in conjunction with hazardous areas</b>								
Type of protection	Ex e	Ex de	Ex de	Ex de	Ex de	Ex e	Ex de	Ex de