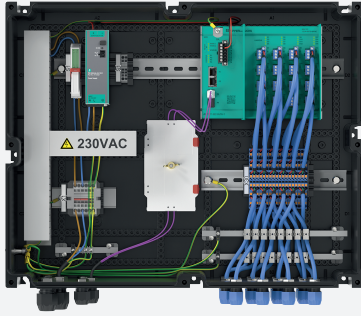


Ethernet-APL Rail Field Switch

F.FS*.G20.B24.E.*.***.***.****



- Glass-fiber reinforced polyester (GRP) enclosure with Ethernet-APL rail field switch
- Spur outputs intrinsically safe for Zone 0, 1, or 2
- Number of spur outputs selectable
- Packaged certified solution
- Installation in Zone 2 and Zone 22
- Customizable configuration of splice trays, cable entries, and further components

Ethernet-APL field junction box enclosure solution, glass-fiber reinforced polyester with intrinsically safe spur ports



Function

This field junction box is a certified enclosure solution for the Ethernet-APL rail field switch. Depending on the switch electronics selected, devices can be located in any explosion hazardous area. The number of outputs can be selected. Glass fiber reinforced polyester provides corrosion resistance and is light weight. The surface resistance prevents electrostatic charge. Cable entries can be selected individually from a range of cable glands and stopping plugs. A breather drain is included by default. Tag plate, fiber optic splice, wiring terminals, surge protection and grounding bars can be custom-configured. This field junction box is available pre-wired with all accessories and certified for explosion hazardous areas, enabling fast delivery, site installation, and commissioning.

Technical Data

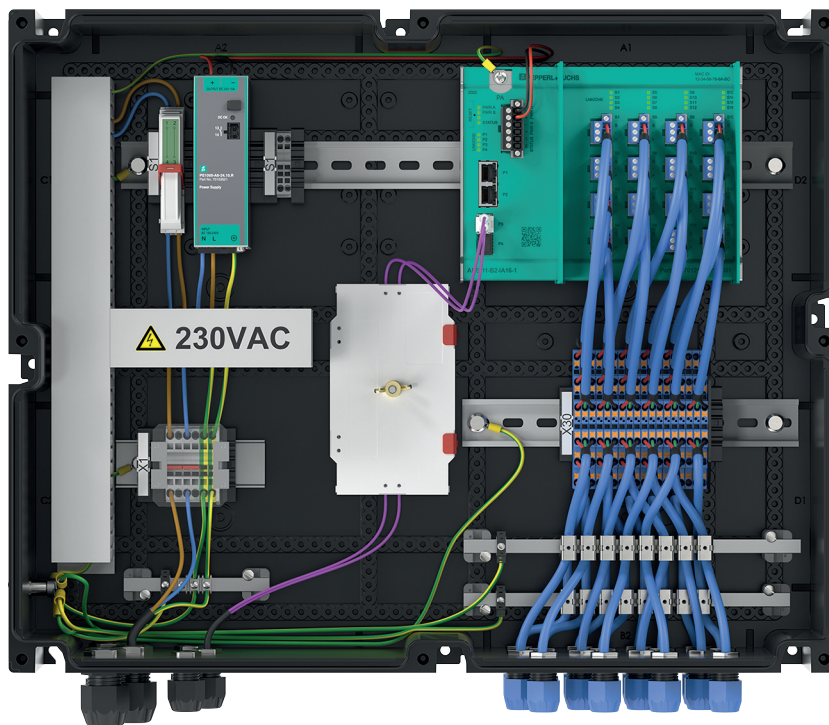
General specifications	
Design / Mounting	Outside installation
Installed components	Ethernet-APL rail field switch ARS1*-B2-I**-* , For technical data on installed electronic component see datasheets.
Fieldbus support	PROFIBUS PA (optional)
Conformity	
Degree of protection	EN 60529
Impact resistance	EN 60079-0
Ambient conditions	
Ambient temperature	-40 ... 50 °C (-40 ... 122 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Impact resistance	7J
Mechanical specifications	
Enclosure cover	Hinged door with captive 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

Release date: 2025-07-01 Date of issue: 2025-07-01 Filename: I210338_eng.pdf

Technical Data

Water absorption	< 6 %
Seal	silicone , one-piece
Material thickness	enclosure body, enclosure cover, mounting plate: 1.5 mm
Dimensions	(W x H x D) 599 x 479 x 242 mm
Mounting	thru-holes Ø 7 mm
Grounding	grounding bolt M6 , brass, nickel-plated
Data for application in connection with hazardous areas	
Certificate	PTB 17 ATEX 1011 X
Marking	<ul style="list-style-type: none"> ⊕ II 3(1) G Ex ic [ia Ga] IIC T4 Gc ⊕ II 3(1)G Ex ec [ia Ga] IIC T4 Gc ⊕ II 3(1)D Ex tc [ia Da] IIIC T135°C Dc
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
International approvals	
IECEx approval	IECEx PTB 07.0036 X , Zone 1 , suitable Junction Box on request IECEx PTB 09.0016 X , Zone 2 , suitable Junction Box on request
General information	
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 www.pepperl-fuchs.com .

Assembly



Mounting

Wall Mounting Option

For wall mounting the APL rail field switch use the accessory ACC-ARS-WM. See manual for details and dimensions.

Type Code

1	2	3	4	5	6	7	8	9	10	11	12							
F.FS*	.	G**	.	*	**	.	E	.	0	.	***	.	***	.	*	*	*	*

Example:

F.FS0.G19.B08.E.0.GP2.GP2.0000

1	Electronic type
F.FS0	Field junction box containing an Ethernet-APL rail field switch (ARS1*-B2-IC-*)
F.FS1	Field junction box containing an Ethernet-APL rail field switch (ARS1*-B2-IA-*)

2	Enclosure material - W x H x D
G13	Polyester glass-fiber reinforced - 359 x 359 x 241.5 mm (GR.36.36.24)
G19	Polyester glass-fiber reinforced - 359 x 719 x 241.5 mm (GR.36.72.24)
G20	Polyester glass-fiber reinforced - 599 x 479 x 241.5 mm (GR.48.60.24)

3	Certification
B	ATEX (Zone 2 and Zone 22)
E	Non-explosion-hazardous (safe area only)

4	Ports
08	8 spur ports/terminals (ARS1*-B2-I*08-*)
16	16 ports/terminals (ARS1*-B2-I*16-*)
24	24 ports/terminals (ARS1*-B2-I*24-*)
nn	n ports/terminals (ARS1*-B2-I***-*)

5	Fieldbus type
E	Ethernet with proxy for PROFIBUS PA
N	Ethernet without proxy

6	Terminal options
0	Screw terminals
3	Spring terminals

7	Main cable entry options
GP2	Cable gland, plastic
GPX	Mixed cable glands
GB2	Cable gland, nickel-plated brass
GS2	Cable gland, stainless steel

7	Spur entry options
GP2	Cable gland, plastic
GPX	Mixed cable glands
GB2	Cable gland, nickel-plated brass
GS2	Cable gland, stainless steel

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
O	Others

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
O	Others - additional accessory to be specified

12	Additional accessories
0	None
D	Document pocket (DIN A4), does not fit all enclosure sizes
O	Others

Product Versions

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