



Ethernet-APL Rail Field Switch

LB9***-T**-B-***-**-*-Y*

- Stainless steel interface enclosure with remote I/O and 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 interface enclosure solution with remote I/O, brushed stainless steel with intrinsically safe spur ports



ethernet-apl™
advanced physical layer



Function

This field junction box is a certified interface enclosure solution for any field device signal, housing remote I/O and an Ethernet-APL field switch. The solution connects Ethernet-APL, PROFIBUS PA and 4 ... 20 mA/HART field devices to the Ethernet backbone or main cable. The field junction box can be installed in Zone 2.

Depending on the switch or remote I/O electronics selected, devices can be located in any explosion-hazardous area. The number of outputs can be selected.

Brushed stainless steel provides high corrosion and shock resistance at a wide temperature range. The integrated drain channel prevents standing water from damaging the one-piece seal.

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 ... 40 °C (-40 ... 104 °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

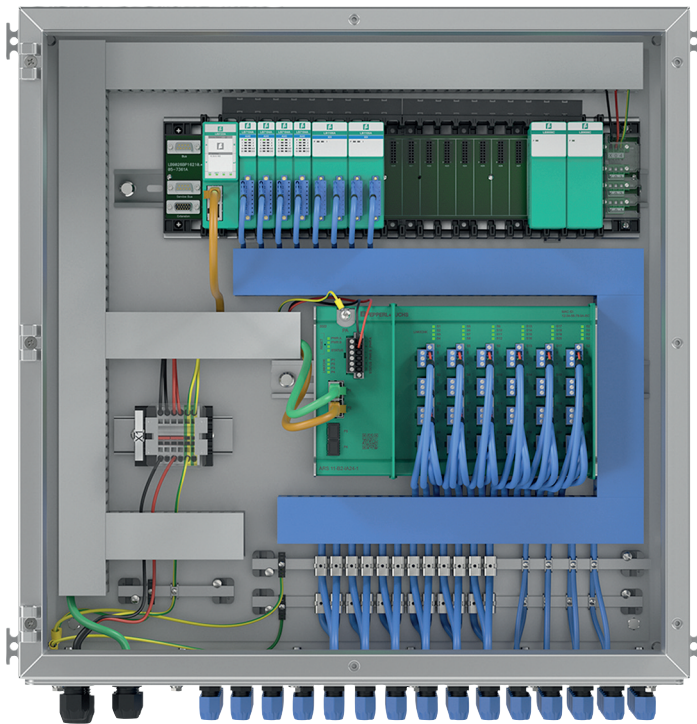
Enclosure cover	Hinged door with captive retaining screws
Degree of protection	IP66
Cable entry	cable gland and stopping plug options see separate table
Material	
Housing	Stainless steel 1.4404 / AISI 316L

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Technical Data

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) 600 x 600 x 260 mm
Mounting	thru-holes Ø 7 mm
Grounding	grounding bolt M6 , brass, nickel-plated
Data for application in connection with hazardous areas	
EU-type examination certificate	
Marking	Ⓜ II 3(1/2)G Ex eb nA [ia Ga/ib Gb/ic] IIC T4 Gc Ⓜ II 3(1/2)D Ex tb [ia Da/ib Db/ic] IIIC T130°C Dc
Certificate	PF 16 CERT 1267 X
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2018 , EN 60079-7:2015 , EN 60079-11:2012 , EN 60079-15:2010 , EN 60079-31:2014
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	13	14						
LB	9*	**	-	T	*	*	-	B	-	*	*	*	-	*	*	-	*	-	Y##-#####

Example:
LB9408-TA2-B-ECB-4A-1

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Type Code

1	
LB	Electronic type LB Remote I/O field unit
2	
94	Installation area Zone 2
95	Zone 2/22
96	Non-explosion-hazardous area (safe area)
3	
08	Slots and redundancy 8 slots
12	12 slots
16	16 slots
22	22 slots
46	46 slots
4	
T	Enclosure material Stainless steel 3.16 - brushed
5	
6	Enclosure size - W x H x D 600 x 600 x 260 mm
7	800 x 800 x 300 mm
8	800 x 1000 x 300 mm
X	Customized
6	
0	Cable entry options for signals Gland plate with entries for M16 cable glands
1	Gland plate with entries for M12 cable glands
2	Gland plate with entries for M20 cable glands
3	Entries for M16 cable glands
4	Entries for M12 cable glands
5	Entries for M20 cable glands
W	Gland plate without entry options
X	Gland plate with mixed entry options
Y	Mixed entry options
Z	Without entry options
7	
B	Certification ATEX (Zone 2 and/or Zone 22)
8	
E	Fieldbus protocol Ethernet protocol
X	Mixed protocols
9	
0	Additional terminal blocks Without
A	Main supply terminal block, screw-type
B	Main supply terminal block, spring-type
C	Main supply terminal block, screw-type Field wiring, screw-type
D	Main supply terminal block, screw-type Field wiring, spring-type
E	Main supply terminal block, spring-type Field wiring, spring-type
F	Field wiring, screw-type
G	Field wiring, spring-type
10	
0	Multifunction terminal (MFT) Without
A	For backplane
B	For power distribution of field devices
C	For I/O modules
D	For backplane For power distribution of field devices
E	For backplane For power distribution of field devices For I/O modules
F	For backplane For I/O modules

Type Code

11 Pneumatics	
0	Without
1	Solenoid valve
12 Fiber optic link and Ethernet-APL	
0	Without
A	Fiber optic link
B	Splice box
C	Fiber optic link Splice box
1	Ethernet-APL (Ex ic) with proxy
2	Ethernet-APL (Ex ia) with proxy
3	Ethernet-APL (Ex ic) without proxy
4	Ethernet-APL (Ex ia) without proxy
13 Label options	
0	Without (only standard nameplate)
1	Tag plate; printed label, customized size
A	Tag plate plastic, 120 x 30 mm
B	Tag plate stainless steel, 120 x 30 mm
14 Type of solution	
Y #####	Customized, the last 7 digits represent the Pepperl+Fuchs item number

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