Wireless Access Point (Ex d)

EJB10A.I.CP-Y*

- Copper-free aluminum enclosure
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Suitable for operation in Class I, II Division 1
- Ex d and Ex tb certified
- Gas group IIB+H_2
- Use of industrial Wireless Access Points in hazardous areas
- External antennas for best possible signal dispersion
- Customizable configuration of WI-FI and network devices and cable entries as per specification
- Degree of protection IP66 or IP66 / IP67, NEMA Type 4X
- Image and drawing are generic for this device type and may deviate from the specific variant
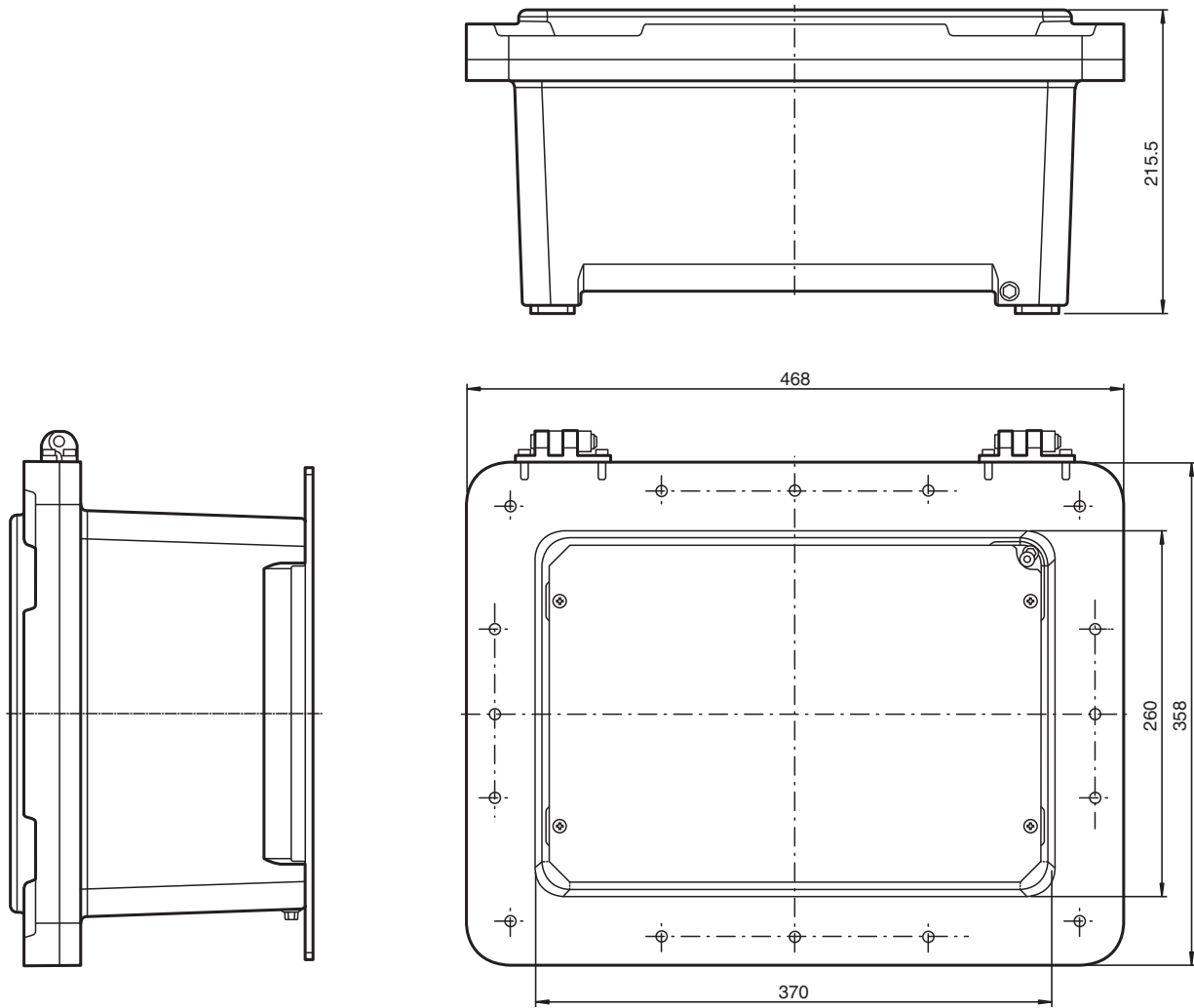
Wireless Access Point in copper-free aluminum enclosure for use in explosion-hazardous areas

Function

Based on a copper-free aluminum enclosure, this Wireless Access Point solution is specifically designed for installation in hazardous areas including Zone 1, Zone 2, Zone 21, Zone 22 and Class I Division 1 environments. The system allows the use of industrial Wireless Access Points in hazardous areas, ensuring seamless connectivity while maintaining safety standards. In addition to the Wireless Access Point, the solution also includes a patch panel to quickly connect the Wireless Access Point to the company's own network. Pepperl+Fuchs solution engineering teams offer many size and design options for the Ex d IIB+H_2 and Ex tb certified flameproof enclosures with any custom configuration including WIFI and network devices and cable entries to meet various requirements. Explosion-proof antennas are mounted on the enclosure to ensure the best possible distribution of radio frequency signals.

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

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Dimensions

Technical Data

Electrical specifications

Operating voltage	1500 V DC / 1000 V AC max. for ATEX / IECEx 600 V AC / DC max. for North American approvals
Operating current	1600 A max.

Mechanical specifications

Thread type	metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1
Enclosure cover	detachable , optional hinges
Cover fixing	stainless steel socket cap head screws
Screws	see datasheets of relevant enclosures
Material of screws	stainless steel
Yield stress	min. 450 N/mm^2 for ATEX / IECEx , 100,000 PSI for North American approvals
Cover seal	none, O-ring for IP66/67
Flamepath grease	Greasil MS4 or NEVER SEEZ Marine Grade
Degree of protection	IP66 (IP66/IP67 with O-ring) , NEMA Type 4, 4X, 7, 9
Material	
Enclosure	aluminum alloy
Glass	thermo-resistant tempered glass
Finish	epoxy coated RAL 7005 (grey)
O-Ring	silicone
Mass	25.1 kg

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Technical Data

Dimensions	468 mm x 358 mm x 215 mm values might differ slightly due to casting and manufacturing tolerances
Mounting	see datasheets of relevant enclosures
Grounding	M6 external grounding points
Ambient conditions	
Ambient temperature	-40 ... 50 °C (-40 ... 122 °F) depending on integrated components
Data for application in connection with hazardous areas	
EU-type examination certificate	INERIS 14 ATEX 0022X
Marking	Ⓔ II 2 GD Ex db IIB+H_2 T* Gb Ex tb IIIC T** °C Db T6/T85 °C T5/T100 °C T4/T135 °C T3/T200 °C depending on configuration, ambient temperature and built-in power loss
Maximum power dissipation	see datasheets of relevant enclosures maximum power dissipation at T4/+40 °C enclosure without window
International approvals	
UL approval	
Approved for	Class I, Division 1, Groups B, C, D Class II, Division 1, Groups E, F, G Type 4, 4X, 7, 9
cULus	Empty enclosure E482035 , UL 50E , UL 1203 , CSA C22.2, No. 25, 30
cETLus	Control panels E5003368
Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
IECEx approval	IECEx INE 14.0029X
Further approvals	available on request
Conformity	
Degree of protection	EN60529 and UL 50 / UL 50E
CE marking	0080 or 0102, see type label
General information	
Ordering information	This Wireless Access Point solution will be delivered completely configured and assembled ready for use. For configuration details please contact customer service.
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.
General specifications	
Installed components	All major WI-FI Access Point vendors such as Aruba, Cisco, ect.

Type Code

1	2	3		4		5		6		7	8
EJB	*	*	.	*	.	*	.	*	-	*	*
EJB		10A	.		.	I	.	CP	-	Y	0001

Example: EJB10A.I.CP-Y0001
Control panel EJB size 10A in aluminum, intrinsically safe circuits integrated

1	Enclosure type
EJB	enclosure Ex d IIB+H_2

2	Material
	copper-free aluminum

3	Enclosure size
0 ... 20A	see datasheets of relevant enclosures

4	Window
	no window
W ...	rectangular window with type indication
WG ...	circular window with type indication

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Type Code

5	Electrical circuits		
D	without intrinsically safe circuits		
I	intrinsically safe circuits integrated		

6	Type of application		
CP	control panel		

7	Variant		
S	standard product		
C	configured Product		
Y	engineered Product		

8	Variant number		
*	consecutive number		

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

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