



Solutions Ex d IIB + H2 based on Aluminum Enclosures

EJBL*

- Copper-free aluminum enclosure
- Suitable for operation in Zone 1, Zone 2, Zone 21 and Zone 22
- Ex d and Ex tb certified
- Gas group IIB+H₂
- Degree of protection IP66
- Various enclosure size and design variants
- Customizable configuration of operators, cable entry quantities and cable gland types as per specification
- Integration of electrical components and operating elements as per customer specification

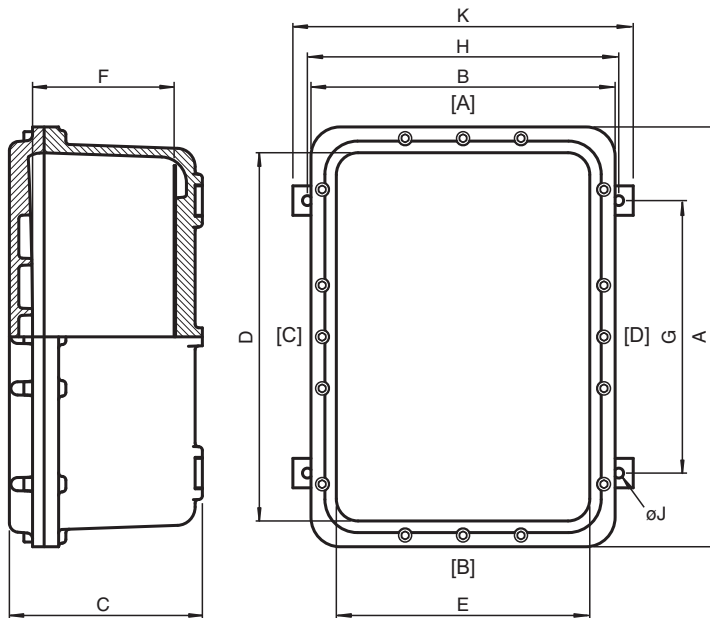
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Function

The enclosure series EJBL forms the optimal basis for the application-specific configuration of terminal boxes, control stations as well as control and distribution panels. The enclosures are certified Ex d IIB+H₂ and Ex tb. They are available in many sizes, a wide range of operating elements and monitoring functions can be integrated. They are manufactured from copper-free aluminum with increased corrosion resistance. This durability as well as the flexible customization options cover the requirements of many industries. Electrical components can be integrated as per customer specification.

Dimensions



Dimension values see data table.
Real values might differ slightly due to manufacturing tolerances.
Image and drawing are generic for this device type and may deviate from the specific variant.

Legend	
A	Height
B	Width
C	Depth
D	Internal height
E	Internal width

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

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 **PEPPERL+FUCHS**

Legend	
F	Internal depth to surface mounting plate
G	Mounting holes distance, vertical
H	Mounting holes distance, horizontal
J	Mounting holes diameter
K	External dimension of mounting brackets
[A ... [D]	Cable entry faces

Dimensions and Enclosure Details

Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]			Mass [kg]	Cover screws			Max. power dissipation at T ₄ /+40 °C [W]	Ambient temperature
	A	B	C	K	D	E	F	G	H	J		Mx	qty.	Torque [Nm] ATEX / IECEx		
EJBL2A*	221	221	157.5	231	162	162	129.5	207	144	12	5.5	M10	6	30	228	-60 ... 60 °C (-76 ... 140 °F)
EJBL4A*	259	221	169	277	200	170	139.5	245	140	12	6.5	M10	6	30	254	-60 ... 60 °C (-76 ... 140 °F)
EJBL6A*	308	208	173	329	250	150	135	296	130	12	8	M10	6	30	264	-60 ... 60 °C (-76 ... 140 °F)
EJBL8B*	358	258	225	381	300	200	186	348	175	12	13	M10	8	30	370	-60 ... 60 °C (-76 ... 140 °F)
EJBL10B*	428	318	255	453	370	260	214	421	235	12	20	M10	12	30	493	-60 ... 60 °C (-76 ... 140 °F)
EJBL11B*	470	390	265	440	400	320	190	280	400	13.5	30	M12	14	40	539	-50 ... 60 °C (-58 ... 140 °F)
EJBL15A*	570	420	266.5	470	500	350	190	370	430	13.5	40	M12	16	40	615	-50 ... 60 °C (-58 ... 140 °F)
EJBL17A*	638	466	393	524	570	397	315	450	484	13.5	59.5	M12	20	40	981	-20 ... 60 °C (-4 ... 140 °F)
EJBL18B*	725	512	402	548	639	426	315	509	508	13.5	74	M16	14	65	933	-20 ... 60 °C (-4 ... 140 °F)
EJBL20*	888	638	343.5	674	802	552	245	668	634	13.5	116	M16	18	65	1245	-20 ... 60 °C (-4 ... 140 °F)

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands

Technical Data

Electrical specifications

Operating voltage 1500 V DC / 1000 V AC max. for ATEX / IECEx

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 (AISI 316 (1.4401) stainless steel) and door stopper (AISI 316 (1.4401) stainless steel

Cover fixing stainless steel socket cap head screws

Screws see data table

Material of screws AISI 316 (1.4401) stainless steel

Yield stress min. 600 N/mm² for ATEX / IECEx

Cover seal none

Degree of protection IP66

Cable entry see data table

Material

Enclosure aluminum alloy

Finish epoxy coated RAL 7005 (grey)

Mass see data table
valid for empty enclosure, will increase according to integrated components

Dimensions see data table
values might differ slightly due to casting and manufacturing tolerances
dimensions are valid for standard enclosures and IP66 variants only

Mounting see data table

Grounding M6 external grounding points

Ambient conditions

Ambient temperature depending on integrated components and selected enclosure size
see data table

Technical Data

Data for application in connection with hazardous areas

EU-type examination certificate		FIDITAS 26 ATEX 0002U INERIS 14 ATEX 0022X
Marking		Ex 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 data table maximum power dissipation at T4/+40 °C enclosure without window
International approvals		
IECEx approval		IECEx FIDI 26.0006U IECEx INE 14.0029X
Further approvals		available on request
Conformity		
Degree of protection		EN60529
CE marking		2829, see type label
General information		
Order information		This 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 .

Type Code

1	2	3		4		5		6	7
EJBL	*	**	.	*	.	**	-	*	****
EJBL		10B	.	D	.	CP	-	Y	0001

Example: EJBL10B.D.CP-Y0001

Control panel EJBL size 10B in aluminum, without intrinsically safe circuits

1	Enclosure type
EJBL	enclosure Ex d IIB+H ₂
2	Material
	copper-free aluminum
3	Enclosure size
0 ... 20	see dimensions data table
4	Electrical circuits
D	without intrinsically safe circuits
I	intrinsically safe circuits integrated
5	Type of application
U	empty enclosure
T	terminal box
CP	control panel
CS	control station
DB	distribution board
DMT	electronic earthing system
MS	motor starter
PS	power switching
RIO	remote I/O field unit
IFS	interface solution
FJB	fieldbus solution
OS	optical solution
6	Variant
S	standard product
C	configured Product

Type Code	
6	Variant
Y	engineered Product
7	Variant number
xxxx	consecutive number

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