Control Panels/Control Stations, Copper free aluminum EJB* Stainless steel EJBX*

Marking

Control Panels/Control Stations, Copper free aluminum EJB* Control Panels/Control Stations, Stainless steel EJBX*
ATEX certificate: INERIS 14 ATEX 0022X ATEX 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
IECEx certificate: IECEx INE 14.0029X CCC certificate: 2020322303002546 UL approval: cETLus Control Panels E5003368 approved for: Class I, Division 1, Groups B, C, D Class II, Division 1, Groups E, F, G Type 4, 4X, 7, 9

The *-marked letters of the type code are placeholders for versions of the device.

Pepperl+Fuchs Group Lilienthalstraße 200, 68307 Mannheim, Germany
Internet: www.pepperl-fuchs.com

Target Group, Personnel

Responsibility for planning, assembly, commissioning, operation, maintenance, and dismounting lies with the plant operator.

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismounting of the device. The trained and qualified personnel must have read and understood the instruction manual.

Reference to Further Documentation

Observe directives, standards, and national laws applicable to the intended use and the operating location.

The corresponding datasheets, manuals, declarations of conformity, EU-type examination certificates, certificates, and control drawings if applicable (see datasheet) are an integral part of this document. You can find this information under www.pepperl-fuchs.com.

In order to access this documentation, enter the product name, i. e. the type code, or the item number of the product in the search field of the website.

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com.

Intended Use

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

The enclosures of the EJB* series are made of copper free aluminum.

The enclosures of the EJBX* series are made of stainless steel.

The device can be used indoors.

The device can be used outdoors.

The device can be used in Zone 1.

The device can be used in Zone 21.

The device can be used in Zone 2.

The device can be used in Zone 22.

The device is designed for wall mounting.

The device is designed for mounting to a steel framework.

Use suitable fixing material for mounting.

Mount the enclosure at the fixing points provided.

Improper Use

Do not mount the device on the ceiling.

Protection of personnel and the plant is not ensured if the device is not used according to its intended use.

Mounting and Installation

Ex components are not intended to be used alone. Mounting and usage of Ex components in devices or systems must be certified separately. Ex components have the U marking at the end of the certificate number.

Observe the instruction manuals for the associated components.

Observe the installation instructions according to IEC/EN 60079-14.

Observe directives, standards, and national laws applicable to the intended use and the operating location.

Examples for such regulations are regulations regarding electricity, grounding, installation as well as hygiene and safety.

If you intend to install the device or enclosure in areas that may be exposed to aggressive substances, ensure that the stated surface materials are compatible with these substances. If required, contact Pepperl+Fuchs for further information.

Ensure that the device provides and maintains a degree of protection of at least IP66 according to IEC/EN 60079-0.

Observe the requirements according to IEC/EN 60079-31regarding excessive dust deposits.

To ensure compliance with the temperature class, ensure that there is adequate free air space around the enclosure.

The product certification allows smaller distances than the distances specified in IEC/EN 60079-14:

- Gas group IIA: = 10 mm
- Gas group IIB: = 10 mm
- Gas group IIB+H_2: = 10 mm

The enclosure cover is heavy. In order to avoid personal injuries or property damage, make appropriate provisions for the mounting procedure.

Do not damage the flamepath surfaces between enclosure and enclosure cover during the opening of the control panel.

If one of the flamepath surfaces is damaged, exchange enclosure and enclosure cover.

Do not add additional components into the control panel, which are not listed in the original bill of materials.

Before fixing the enclosure cover to the enclosure, protect the flamepath surfaces with a thin layer of suitable protective grease.

When the cover is fitted, ensure that all fasteners are fully tightened.

The delivered control panel is completely wired. Do not modify or manipulate this control panel. Observe the wiring diagram when connecting the control panel.

Ensure that there are no external heat sources around the enclosure.

Safety-relevant markings are found on the nameplate supplied. Ensure that the nameplate is present and legible. Take the ambient conditions into account.

Additional warning markings may be affixed next to the nameplate.

Ensure that the enclosure is not damaged, distorted, or corroded.

Ensure that all seals are clean, undamaged, and correctly fitted.

Tighten all screws of the enclosure/enclosure cover with the appropriate torque.

Close all unused enclosure holes with the appropriate stopping plugs.

Only use stopping plugs that are suitably certified for the application.

If mounting the enclosure on concrete use expansion anchors. When mounting the enclosure to a steel framework use vibration resistant mounting material.

If external connections are present, ensure that the connections are in good condition, and are not damaged or corroded.

In order to prevent condensation in the enclosure, use suitably certified breather drains.

In order to minimize power dissipation, observe the maximum possible conductor lengths.

If radio frequency sources are present in the device, the usage of the device is bound to local restrictions. Ensure that the local restrictions allow usage of this device before commissioning.

Associated Apparatus / Intrinsically Safe Circuits

When the control panel is equipped with an associated apparatus with intrinsically safe circuits and the panel is in addition equipped with a thermal probe for protecting the I.S. apparatus against ambient temperatures where it is not designed for, this thermal probe has to be connected to either an internal or external switch which switches OFF the power for the I.S. apparatus in case the temperature inside of the panel reaches the upper or lower thresholds of the I.S. apparatus. If an external temperature switch is used, the user has to configure the settings of that switch according to the following rules:

- Maximum temperature response threshold of [(TIEx-2) ±2°C] TIEx = Maximum value of the certified ambient temperature of the internal I.S. apparatus.
- Minimum temperature response threshold of [(TminEx+2) ±2°C]. TminEx = minimum value of the certified ambient temperature of the internal I.S. apparatus.

Requirements for Cable Glands

Only use cable glands that are suitably certified for the application.

Only use cable glands with a temperature range appropriate to the application.

For cable glands only use incoming cable diameters of the appropriate size.

For control panels with IECEx certification, only use cable glands with metric thread or NPT thread.

Use seals that are suitable for the specified application.

Ensure that the degree of protection is not violated by the cable glands.

Install cables and cable glands in a way that they are not exposed to mechanical hazards.

The cables and connection lines must be free from mechanical stress. Use appropriate strain relief, which must be fitted outside of the enclosure.

Ensure that all cable glands are in good condition and are securely tightened.

Close all unused cable glands with the appropriate sealing plugs.

Observe the specific ambient conditions of sealing plugs.

Tighten all cable glands with the appropriate torque.

Ground metal cable glands.

Operation, Maintenance, Repair

Observe the requirements according to IEC/EN 60079-14 during operation.

Observe IEC/EN 60079-17 for maintenance and inspection.

Observe the requirements according to IEC/EN 60079-19 for repair and overhaul.

The device must be disconnected from the power supply prior to installation and maintenance. The power supply may be activated only after all the circuits required for operation have been fully assembled and connected.

If the control panel was affected by a short circuit, check the following.

Check the functionality of the control panel.

Check the wear on the device and the device components at specific intervals. The interval between checks depends on the operating conditions and loads that occur.

If the enclosure is damaged, replace enclosure and enclosure cover.

Check all surfaces of the flamepath for damage. If an actuator is present, check the flamepaths of the actuator for damage.

If the surfaces of the flamepath are damaged, replace the enclosure and the enclosure cover. If the surfaces of the flamepath of an actuator are damaged replace the complete actuator.

Do not paint or varnish the surfaces of the flamepath.

If the protective grease on the surfaces of the flamepath has become old, remove the protective grease and fat with new suitable protective grease.

Enclosures with degree of protection IP66/67 have seals in the flamepath.

Only use screws with a defined minimum yield stress for closing the enclosure cover.

Avoid electrostatic charges which could result in electrostatic discharges while installing, operating, or maintaining the device.

If cleaning is necessary while the device is located in a hazardous area, in order to avoid electrostatic charging only use a clean damp cloth.

Do not modify or manipulate the device.

Ensure that all fasteners are present.

Ensure that external ground connections exist, are in good condition, and are not damaged or corroded.

If there is a defect, the device must be repaired by Pepperl+Fuchs.

Alternatively the device can be repaired by a qualified electrician in compliance with IEC/EN 60079-19.

Schedule of Limitations

The width of the flameproof joints is superior to those specified in the tables of EN/IEC 60079-1.

Delivery, Transport, Disposal

Store the device in a clean and dry environment. The permitted ambient conditions must be considered, see datasheet.

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.

Technical Data

General	
Types and variants	EJB* - see type code table EJBX* - see type code table
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	recommended: 1600 A max.
Mechanical specifications	
Dimensions	see data table values might differ slightly due to casting and manufacturing tolerances dimensions are valid for standard enclosures and IP66 variants only
Thread type	metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1
Enclosure cover	detachable , optional hinges
Degree of protection	IP66 (IP66/IP67 with O-ring) , NEMA Type 4, 4X, 7, 9
Mass	see data table valid for empty enclosure, will increase according to integrated components
Mounting	see data table
Cable entry	see data table
Material	
Enclosure	aluminum alloy or AISI 316L stainless steel
Glass	thermo-resistant tempered glass
Material of screws	stainless steel
Yield stress	min. 450 N/mm^2 for ATEX / IECEx , 100,000 PSI for North American approvals
Finish	aluminum: epoxy coated RAL 7005 (grey) stainless steel: shot peened
O-Ring	silicone
Cover seal	none, O-ring for IP66/67
Flamepath grease	Greasil MS4 or NEVER SEEZ Marine Grade
Cover fixing	stainless steel socket cap head screws
Grounding	M6 external grounding points
Ambient conditions	
Ambient temperature	-60 ... 60 °C (-76 ... 140 °F) UL: -25 ... 60 °C (-13 ... 140 °F) depending on integrated component
Data for application in connection with hazardous areas	
Maximum power dissipation	see data table maximum power dissipation at T4/+40 °C enclosure without window
Conformity	
Degree of protection	EN60529 and UL 50 / UL 50E
CE marking	0080 or 0102, see type label

Type Code / Model Number

1	2	3		4		5		6		7	8
EJB	*	**	.	**	.	*	.	**	-	*	****
EJB		17Q	.	W1	.	D	.	CP	-	Y	0001

Example: EJB17Q.W1.D.CP-Y0001

Control panel EJB size 17Q in aluminum, rectangular window type 1, without intrinsically safe circuits

1	Enclosure type
EJB	enclosure Ex d IIB+H_2

2	Material
	copper-free aluminum

3	Enclosure size
0 ... 20A	see dimensions data table

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

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

6	Type of application
U	empty enclosure
T	terminal box ATEX / IECEx
TD1	terminal box UL Class 1, Division 1 / Class 2, Division 1
CP	control panel ATEX / IECEx
CPD1	control panel UL Class 1, Division 1 / Class 2, Division 1
CS	control station ATEX / IECEx
CSD1	control station UL Class 1, Division 1 / Class 2, Division 1
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
Q40	engineered solution per customer specification (Q40)

7	Variant
S	standard product
C	configured Product
Y	engineered Product

8	Variant number
xxxx	consecutive number

Type Code / Model Number

1	2	3		4		5		6		7
EJB	*	**	.	**	.	*	.	**	-	****
EJB	X	17Q	.	W1	.	D	.	CP	-	Y0001

Example: EJBX17Q.W1.D.CP-Y0001

Control panel EJB size 17Q in stainless steel, rectangular window type 1, without intrinsically safe circuits

1	Enclosure type
EJB	enclosure Ex d IIB+H_2

2	Material
X	stainless steel

3	Enclosure size
0 ... 20A	see dimensions data table

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

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

6	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
Q40	engineered solution per customer specification (Q40)

7	Variant number
Yxxxx	consecutive number

Class of Temperature / Ambient Temperature for Cable Entries and Cable

Only use cable entries and cables suitable for the class of temperature / ambient temperature as reported in the following table.

Max. ambient temperature [°C]	Class of temperature type of protection Ex d IIA, IIB, IIB+H_2			
	T6 [°C]	T5 [°C]	T4 [°C]	T3 [°C]
40	-	90	120	140 (with window) 175 (without window)
50	-	90	120	140 (with window) 175 (without window)
55	-	90	120	140 (with window) 175 (without window)
60	-	90	120	140 (with window) 175 (without window)

Connection with cables suitable for the above mentioned temperatures.

Comparative Table Marking / Thread of the Cable Entry

Threaded entries in the enclosures are identified by the following coding:

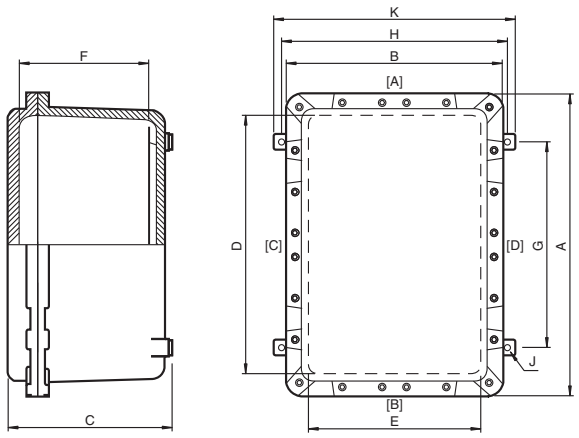
Markings according to the requirements of IEC 60079-1 clause 13.2			
00 C = 1/4" ISO228	00 N = 1/4" NPT	00 M = M12 x 1.5	9PG = PG9
1 C = 1/2" ISO228	0 N = 3/8" NPT	0 M = M16 x 1.5	11PG = PG11
3 C = 1" ISO228	1 N = 1/2" NPT	1 M = M20 x 1.5	13PG = PG13
00 G = 1/4" ISO 7/1	2 N = 3/4" NPT	2 M = M25 x 1.5	16GP = PG16
0 G = 3/8" ISO 7/1	3 N = 1" NPT	3 M = M32 x 1.5	21PG = PG21
1 G = 1/2" ISO 7/1	4 N = 1 1/4" NPT	4 M = M40 x 1.5	29PG = PG29
2 G = 3/4" ISO 7/1	5 N = 1 1/2" NPT	42 M = M42 x 1.5	36PG = PG36
3 G = 1" ISO 7/1	6 N = 2" NPT	5 M = M50 x 1.5	42PG = PG42
4 G = 1 1/4" ISO 7/1	7 N = 2 1/2" NPT	6 M = M63 x 1.5	48PG = PG48
5 G = 1 1/2" ISO 7/1	8 N = 3" NPT	7 M = M75 x 1.5	
6 G = 2" ISO 7/1		8 M = M85 x 1.5	
7 G = 2 1/2 " ISO 7/1			
8 G = 3" ISO 7/1			

G" means also equivalent type according UNI6125 or EN10266-2.

Example: diameter of the hole Ref. 2 M = thread M25 x 1.5.

Variant-Specifc Data

Dimensions and Enclosure Details



Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]			Mass [kg]	Cover screws		North American approval	Max. power dissipation at T4/+40 °C [W]
	A	B	C	K	D	E	F	G	H	J		Mx	qty.		
EJB0*	201	136	150	128	140	75	116	133	108	8	3.8	M6	6	X	51
EJB2A*	223	223	170	226	162	162	128	157	206	8	6.4	M6	8	-	104
EJB4A*	265	225	182	226	200	160	139	188	206	8	8.5	M8	10	X	125
EJB6A*	332	232	172	216	250	150	133	230	196	8	9.8	M8	10	-	139
EJB8*	390	290	182	270	300	200	131	282	250	10	15.7	M8	14	-	192
EJB8A*	390	290	204	270	300	200	152	282	250	10	16.6	M8	14	X	211
EJB8B*	390	290	237	270	300	200	186	282	250	10	17.9	M8	14	X	236
EJB9A*	412	242	188	226	330	160	139	312	206	8	14.2	M8	14	-	185
EJB9B*	412	242	260	226	330	160	211	312	206	8	16.8	M8	14	-	238
EJB10A*	468	358	215	350	370	260	165	345	320	10	25.1	M8	16	X	305
EJB10B*	468	358	265	350	370	260	215	345	320	10	28.7	M8	16	X	353
EJB11A*	514	434	231	415	400	320	171	363	385	10	32	M10	22	X	383
EJB11B*	514	434	277	415	400	320	217	363	385	10	37	M10	22	X	432
EJB15*	602	452	236	460	500	350	172	460	430	12	40.8	M10	20	-	481
EJB15A*	602	452	288	460	500	350	219	460	430	12	52	M10	20	X	540
EJB17*	676	503	264	494	570	397	195	538	464	12	56	M10	22	-	745
EJB17A*	676	503	384	494	570	397	317	538	464	12	67	M10	22	-	746
EJB17Q*	630	630	368	613	500	500	278	453	583	14	94	M12	24	X	593
EJB18A*	751	538	303	535	640	427	213	509	505	14	85	M12	24	X	707
EJB18B*	751	538	408	535	640	427	318	509	505	14	100	M12	24	X	864
EJB20*	937	687	353	670	805	555	247	668	630	14	167	M16	32	-	1616
EJB20A*	937	687	499	670	805	555	393	668	630	14	195	M16	32	-	1616

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

Cable Entries max. Quantity per Size

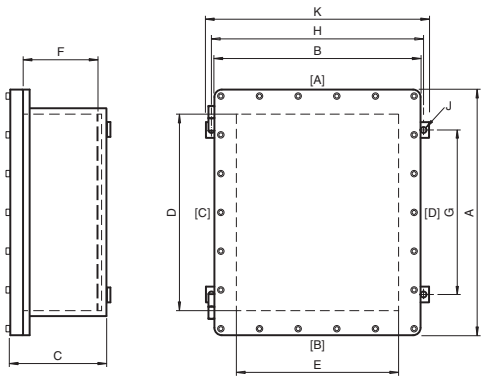
Type	Faces A and B								Faces C and D								Cover		
	M20	M25	M32	M42	M50	M63	M75	M85	M20	M25	M32	M42	M50	M63	M75	M85	M12	M20	M32
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/4"	1/2"	1"
EJB0*.U	4	3	1	1	1	1	-	-	5	4	3	2	2	1	-	-	4	3	3
EJB2A*.U	8	8	5	3	2	1	-	-	8	8	5	3	2	1	-	-	9	9	5
EJB4A*.U	6	5	4	4	3	2	-	-	8	6	5	5	4	2	-	-	20	16	9
EJB6A*.U	6	6	4	2	2	1	-	-	12	10	8	3	3	2	-	-	12	12	10
EJB8*.U	9	8	6	3	2	2	1	-	14	12	10	4	4	3	2	-	20	20	14
EJB8A*.U	12	8	6	3	3	2	1	1	17	12	10	6	4	3	2	2	20	20	14
EJB8B*.U	14	12	9	6	4	3	2	1	22	20	14	8	7	5	3	2	20	20	14
EJB9A*.U	8	6	5	2	2	1	1	-	14	13	10	4	4	3	3	-	20	20	12
EJB9B*.U	12	9	8	4	4	2	1	1	26	19	15	8	8	5	3	2	20	20	12
EJB10A*.U	15	12	8	6	3	3	2	2	20	18	12	9	7	4	3	2	30	30	20
EJB10B*.U	18	15	12	6	5	4	2	2	25	23	18	10	8	7	3	3	30	30	20
EJB11A*.U	14	14	10	7	5	4	3	2	20	20	13	9	7	5	3	3	28	28	24
EJB11B*.U	18	18	14	8	8	5	3	2	21	21	17	10	10	7	4	3	28	28	24
EJB15*.U	17	17	10	8	7	4	3	2	23	23	14	10	10	5	4	3	40	40	30
EJB15A*.U	18	18	11	8	8	5	3	3	24	24	17	12	12	7	5	3	40	40	30
EJB17*.U	28	21	15	10	9	5	3	3	38	30	25	13	13	9	5	4	49	49	40
EJB17A*.U	32	28	25	15	13	8	6	5	50	45	38	20	18	14	8	5	49	49	40
EJB17Q*.U	49	35	26	17	15	10	7	5	49	35	26	17	15	10	7	5	53	53	45
EJB18A*.U	29	22	17	11	9	5	4	3	44	34	25	16	15	7	6	4	52	52	45
EJB18B*.U	45	35	26	17	15	12	6	5	57	50	43	28	21	17	8	8	52	52	45
EJB20*.U	34	30	20	11	10	8	3	2	50	46	31	15	14	10	7	5	65	65	52
EJB20A*.U	50	43	38	28	21	16	8	6	80	70	54	43	32	23	10	9	65	65	52

Metric ISO pitch 1.5 mm, NPT ANSI ASME B1.20.1

Table shows drilling pattern for ambient temperature range -20 … +60 °C, for lower temperatures please contact Pepperl+Fuchs

For types of cable glands and combination of different gland sizes please contact Pepperl+Fuchs

Dimensions and Enclosure Details - Approvals for ATEX / IECEx Europe



Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]			Mass [kg]	Cover screws		Max. power dissipation at T4/+40 °C [W]
	A	B	C	K	D	E	F	G	H	J		Mx	qty.	
EJBX0*.U*	198	133	141	128	140	75	110.5	133	108	8	7	M6	6	51
EJBX2A*.U*	220	220	156	226	160	160	125.5	157	206	9	12	M6	8	104
EJBX3A*.U*	252	152	164	165	200	100	125.5	185	145	8	13	M6	10	83
EJBX4A*.U*	262	222	182.5	226	200	160	145.5	188	206	9	17	M8	10	125
EJBX6A*.U*	309	209	172.5	216	250	150	135.5	233	196	9	19	M8	10	139
EJBX8B*.U*	371	271	232.5	270	300	200	195.5	282	250	11	36	M8	14	236
EJBX10B*.U*	450	340	262.5	350	370	260	225.5	345	320	11	66	M8	16	353
EJBX11B*.U*	490	410	270	415	400	320	233.5	363	385	10	80	M10	22	432
EJBX15A*.U*	580	430	263.5	460	500	350	220.5	462	430	13	96	M10	20	540
EJBX17A*.U*	662	492	363	494	570	400	315.5	550	464	14	145	M10	22	746
EJBX17Q*.U*	594	594	318	613	500	500	270.5	453	583	14	143	M12	24	593
EJBX18B*.U*	734	524	366.5	535	640	430	320.5	590	505	15	167	M12	24	864
EJBX20A*.U*	922	672	435.5	670	800	550	380.5	697	630	17	320	M12	32	1616

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

Dimensions are valid for standard enclosures and IP66 variants only

Dimensions and Enclosure Details - Approvals for ATEX / IECEx Asia Pacific

Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]			Mass [kg]	Cover screws		Max. power dissipation at T4/+40 °C [W]
	A	B	C	K	D	E	F	G	H	J		Mx	qty.	
EJBX0*.U*.AI*	198	133	156.5	140	140	75	110	133	120	9	12	M6	6	51
EJBX2A*.U*.AI*	220	220	171.5	226	160	160	125	157	206	9	21	M6	8	104
EJBX3A*.U*.AI*	252	152	171.5	165	200	100	125	185	145	9	18	M6	10	83
EJBX4A*.U*.AI*	262	222	191.5	226	200	160	145	188	206	9	25	M8	10	125
EJBX6A*.U*.AI*	310	210	181.5	216	250	150	135	233	196	9	28	M8	10	139
EJBX8B*.U*.AI*	371	271	241.5	270	300	200	195	282	250	11	46	M8	14	236
EJBX10B*.U*.AI*	450	340	271.5	350	370	260	225	345	320	11	67	M8	16	353
EJBX11B*.U*.AI*	490	410	276.5	415	400	320	230	363	385	11	84	M10	22	432
EJBX15A*.U*.AI*	580	430	266.5	460	500	350	220	462	430	13	101	M10	20	540
EJBX17A*.U*.AI*	662	492	365.5	494	570	400	315	550	464	15	149	M10	22	746
EJBX17Q*.U*.AI*	594	594	322.5	613	492	492	266	453	583	15	177	M12	24	593
EJBX18B*.U*.AI*	734	524	372.5	535	632	422	320	590	505	15	207	M12	24	864
EJBX20A*.U*.AI*	922	672	434.5	670	800	550	380	697	630	17	338	M12	32	1616

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

Dimensions are valid for standard enclosures and IP66 variants only

Dimensions and Enclosure Details - Approvals for North America

Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]			Mass [kg]	Cover screws		Max. power dissipation at T4/+40 °C [W]
	A	B	C	K	D	E	F	G	H	J		Mx	qty.	
EJBX0*.U*.UL*	198	133	156.5	140	140	75	110	133	120	9	12	M6	6	51
EJBX2A*.U*.UL*	220	220	171.5	226	160	160	125	157	206	9	21	M6	8	104
EJBX3A*.U*.UL*	252	152	171.5	165	200	100	125	185	145	9	18	M6	10	83
EJBX4A*.U*.UL*	262	222	191.5	226	200	160	145	188	206	9	25	M8	10	125
EJBX6A*.U*.UL*	310	210	181.5	216	250	150	135	233	196	9	28	M8	10	139
EJBX8B*.U*.UL*	371	271	241.5	270	300	200	195	282	250	11	46	M8	14	236
EJBX10B*.U*.UL*	450	340	271.5	350	370	260	225	345	320	11	67	M8	16	353
EJBX11B*.U*.UL*	490	410	276.5	415	400	320	230	363	385	11	84	M10	22	432
EJBX15A*.U*.UL*	580	430	266.5	460	500	350	220	462	430	13	101	M10	20	540
EJBX17Q*.U*.UL*	594	594	322.5	613	492	492	266	453	583	15	177	M12	24	593
EJBX18B*.U*.UL*	734	524	372.5	535	632	422	320	590	505	15	207	M12	24	864

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

Dimensions are valid for standard enclosures and IP66 variants only

Cable Entries max. Quantity per Size - Approvals for ATEX / IECEx Europe

Type	Faces A and B								Faces C and D								Cover		
	M20	M25	M32	M42	M50	M63	M75	M85	M20	M25	M32	M42	M50	M63	M75	M85	M12	M20	M32
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/4"	1/2"	1"
EJBX0*.U*	4	3	1	1	1	1	-	-	5	4	3	2	2	1	-	-	4	3	3
EJBX2A*.U*	8	8	5	3	2	1	-	-	8	8	5	3	2	1	-	-	9	9	5
EJBX3A*.U*	5	4	3	2	1	1	-	-	8	8	5	3	3	2	-	-	8	8	6
EJBX4A*.U*	6	5	4	4	3	2	-	-	8	6	5	5	4	2	-	-	20	16	9
EJBX6A*.U*	8	8	5	3	2	2	1	1	14	14	8	5	5	3	2	2	15	15	8
EJBX8B*.U*	12	12	9	8	6	3	2	1	17	15	14	11	8	5	3	2	20	20	12
EJBX10B*.U*	12	12	11	8	6	4	3	2	18	18	15	11	8	5	4	3	20	20	16
EJBX11B*.U*	18	18	14	8	8	5	3	2	21	21	17	10	10	7	4	3	28	28	24
EJBX15A*.U*	18	18	11	8	8	5	3	3	24	24	17	12	12	7	5	3	40	40	30
EJBX17A*.U*	24	24	18	12	11	8	6	5	32	32	21	18	17	14	8	5	35	35	24
EJBX17Q*.U*	30	22	18	17	14	8	7	5	30	22	18	17	14	8	7	5	42	42	28
EJBX18B*.U*	24	24	18	15	15	11	6	5	36	36	30	26	18	14	8	8	45	45	32
EJBX20A*.U*	67	54	40	12	10	6	4	4	102	78	60	20	12	8	8	8	60	60	60

Metric ISO pitch 1.5 mm, NPT ANSI ASME B1.20.1

Table shows drilling pattern for ambient temperature range -20 … +60 °C, for lower temperatures please contact Pepperl+Fuchs

For types of cable glands and combination of different gland sizes please contact Pepperl+Fuchs

Cable Entries max. Quantity per Size - Approvals for ATEX / IECEx Asia Pacific

Type	Faces A and B								Faces C and D								Cover		
	M20	M25	M32	M42	M50	M63	M75	M85	M20	M25	M32	M42	M50	M63	M75	M85	M12	M20	M32
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/4"	1/2"	1"
EJBX0*.U*.AI*	4	3	1	1	1	1	-	-	5	4	3	2	2	1	-	-	4	3	3
EJBX2A*.U*.AI*	8	8	5	3	2	1	-	-	8	8	5	3	2	1	-	-	9	9	5
EJBX3A*.U*.AI*	5	4	3	2	1	1	-	-	8	8	5	3	3	2	-	-	8	8	6
EJBX4A*.U*.AI*	6	5	4	4	3	2	-	-	8	6	5	5	4	2	-	-	20	16	9
EJBX6A*.U*.AI*	8	8	5	3	2	2	1	1	14	14	8	5	5	3	2	2	15	15	8
EJBX8B*.U*.AI*	12	12	9	8	6	3	2	1	17	15	14	11	8	5	3	2	20	20	12
EJBX10B*.U*.AI*	12	12	11	8	6	4	3	2	18	18	15	11	8	5	4	3	20	20	16
EJBX11B*.U*.AI*	18	18	14	8	8	5	3	2	21	21	17	10	10	7	4	3	28	28	24
EJBX15A*.U*.AI*	18	18	11	8	8	5	3	3	24	24	17	12	12	7	5	3	40	40	30
EJBX17A*.U*.AI*	24	24	18	12	11	8	6	5	32	32	21	18	17	14	8	5	35	35	24
EJBX17Q*.U*.AI*	30	22	18	17	14	8	7	5	30	22	18	17	14	8	7	5	42	42	28
EJBX18B*.U*.AI*	24	24	18	15	15	11	6	5	36	36	30	26	18	14	8	8	45	45	32
EJBX20A*.U*.AI*	67	54	40	12	10	6	4	4	102	78	60	20	12	8	8	8	60	60	60

Metric ISO pitch 1.5 mm, NPT ANSI ASME B1.20.1

Table shows drilling pattern for ambient temperature range -20 … +60 °C, for lower temperatures please contact Pepperl+Fuchs

For types of cable glands and combination of different gland sizes please contact Pepperl+Fuchs

Cable Entries max. Quantity per Size - Approvals for North America

Type	Faces A and B								Faces C and D								Cover		
	M20	M25	M32	M42	M50	M63	M75	M85	M20	M25	M32	M42	M50	M63	M75	M85	M12	M20	M32
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	1/4"	1/2"	1"
EJBX0*.U*.UL*	2	1	-	-	-	-	-	-	4	2	1	-	-	-	-	-	3	2	1
EJBX2A*.U*.UL*	8	8	5	3	2	1	-	-	8	8	5	3	2	1	-	-	9	9	5
EJBX3A*.U*.UL*	4	3	2	1	-	-	-	-	10	7	4	2	1	-	-	-	6	4	2
EJBX4A*.U*.UL*	8	5	3	1	1	1	-	-	13	8	6	2	2	1	-	-	15	9	8
EJBX6A*.U*.UL*	5	3	2	1	1	-	-	-	12	10	6	3	3	1	1	-	13	8	5
EJBX8B*.U*.UL*	18	12	10	4	4	3	2	-	28	21	15	7	7	5	3	-	22	17	11
EJBX10B*.U*.UL*	27	17	11	5	5	3	2	-	41	28	17	7	7	5	3	-	25	15	10
EJBX11B*.U*.UL*	36	26	16	7	7	4	3	-	45	36	25	10	10	7	5	-	40	26	16
EJBX15A*.U*.UL*	24	15	10	4	4	2	2	-	49	31	20	9	9	5	4	-	56	36	23
EJBX17Q*.U*.UL*	62	39	25	11	11	7	5	-	62	39	25	11	11	7	5	-	54	34	22
EJBX18B*.U*.UL*	72	47	30	13	13	8	6	-	99	63	40	18	18	11	8	-	72	46	29

Metric ISO pitch 1.5 mm, NPT ANSI ASME B1.20.1

Table shows drilling pattern for ambient temperature range -20 … +60 °C, for lower temperatures please contact Pepperl+Fuchs

For types of cable glands and combination of different gland sizes please contact Pepperl+Fuchs