

Features

- Glass fiber reinforced polyester (GRP) enclosures
- Suitable for installation in Zones 0, 1, 2, 21 and 22
- Certified Ex e, Ex ia and Ex tb
- 16 enclosure size options
- Various terminal and cable gland configurations
- Wide range of accessories available

Variants options

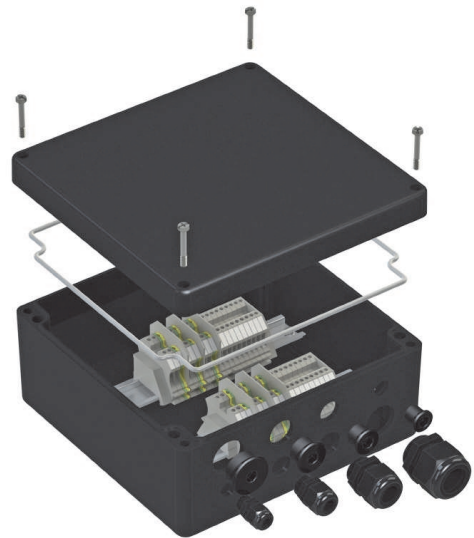


Function

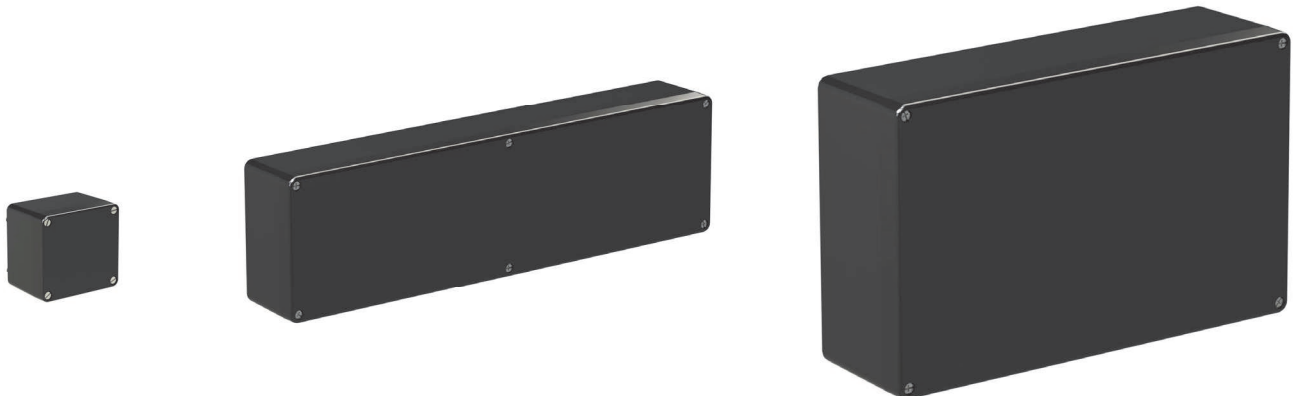
The GL series is a range of terminal boxes which can be equipped with various types and quantities of terminals and cable glands.

Enclosures are manufactured using carbon loaded glass fiber reinforced polyester with stainless steel lid fixing bolts as standard. This provides an anti-static, UV stabilized and corrosion resistant solution whilst still maintaining a smooth surface finish.

For terminal and cable gland configurations please see data tables overleaf. Further configurations can be confirmed by your local Pepperl+Fuchs office.



Variants examples



Technical data**Electrical specifications**

Operating voltage	690 V AC max. (GL1** ... GL4**): 440 V AC max.)
Operating current	350 A max. (GL1** ... GL4**): 36 A max.)

Mechanical specification

Enclosure cover	fully detachable
Cover fixing	see dimensions data table
Protection degree	IP66 / IP67
Cable entry	cable glands as per specification, see cable entries table
Cable gland capacity	see cable entries table

Terminal assembly

Number of terminals	see terminal configurations table
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Material


Enclosure	carbon loaded, anti-static glass fiber reinforced polyester (GRP)
Finish	moulded, self-colour black
Seal	silicone cord
Mass	see dimensions data table
Grounding	none as standard, optional M6 internal / external stud as required


Ambient conditions

Ambient temperature	-40 ... 60 °C (-40 ... 140 °F)
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Data for application in connection with Ex-areas

EC-Type Examination Certificate	SIRA 99 ATEX 3200X
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Group, category, type of protection, temperature class	 II 2 GD Ex e IIC T6 Gb, Ex tb IIIC T80 °C Db (Ta ... +40 °C) Ex e IIC T5 Gb, Ex tb IIIC T95 °C Db (Ta ... +55 °C) Ex e IIC T4 Gb, Ex tb IIIC T130 °C Db (Ta ... +60 °C)
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	 II 1 G, II 2 D Ex ia IIC T6 Ga, Ex tb IIIC T80 °C Db (Ta ... +40 °C) Ex ia IIC T5 Ga, Ex tb IIIC T95 °C Db (Ta ... +55 °C) Ex ia IIC T4 Ga, Ex tb IIIC T130 °C Db (Ta ... +60 °C)
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International approvals

IECEX approval	IECEX SIR 06.0106X
GOST-R approval	GOST-R B01008
CCOE approval	A/P/HQ/MH/104/2293(P265961)

Conformity

Protection degree	EN 60529
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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 .
Ordering information	Terminal Boxes will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.

Accessories

Optional accessories	see accessories table
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Terminal Configurations - Standard Terminals

Type	DIN rails	Rail orientation	Rail length	Terminals per rail	Terminals total	Terminal type	Terminal capacity
	qty.						
GL1**	1	horizontal	55	10	10	AKZ	2.5
GL2**	1	horizontal	85	16	16	AKZ	2.5
GL3**	1	horizontal	135	25	25	AKZ	2.5
GL4**	1	horizontal	165	31	31	AKZ	2.5
GL5**	1	horizontal	78	14	14	WDU	2.5
GL6**	1	horizontal	176	33	33	WDU	2.5
GL7**	1	horizontal	116	21	21	WDU	2.5
GL8**	1	horizontal	216	41	41	WDU	2.5
GL9**	1	horizontal	316	60	60	WDU	2.5
GL10**	1	horizontal	516	98	98	WDU	2.5
GL11**	2	horizontal	211	40	80	WDU	2.5
GL11**D	2	horizontal	211	40	80	WDU	2.5
GL12**	2	horizontal	356	68	136	WDU	2.5
GL13**	3	horizontal	356	68	204	WDU	2.5
GL14**	3	horizontal	356	68	204	WDU	2.5
GL14**D	3	horizontal	356	68	204	WDU	2.5

1 for other terminal types and capacities please contact Pepperl+Fuchs

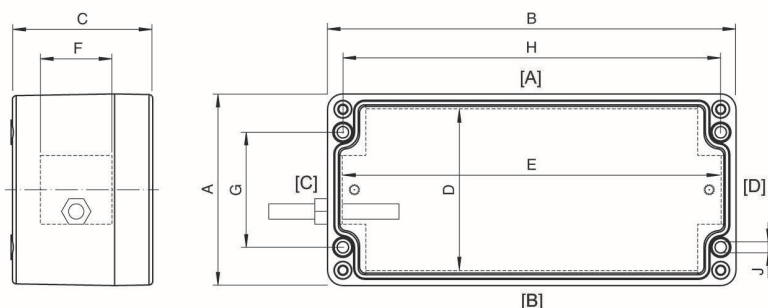
Cable Entries - maximum quantity per size

Type	Cable entry area at faces		Cable gland quantity face A/B							Cable gland quantity face C/D						
	A & B [mm]	C & D [mm]	M12	M16	M20	M25	M32	M40	M50	M12	M16	M20	M25	M32	M40	M50
GL1**	28 x 50	28 x 27	2	2	1	1	-	-	-	1	1	1	-	-	-	-
GL2**	28 x 80	28 x 27	4	3	2	2	-	-	-	1	1	1	-	-	-	-
GL3**	28 x 130	28 x 27	7	5	4	3	-	-	-	1	1	1	-	-	-	-
GL4**	28 x 160	28 x 27	9	6	5	4	-	-	-	1	1	1	-	-	-	-
GL5**	49 x 82	49 x 58	8	6	3	2	2	1	-	4	4	2	1	1	1	-
GL6**	49 x 180	49 x 58	18	14	10	6	4	3	2	4	4	2	1	1	1	-
GL7**	56 x 110	56 x 80	12	9	6	4	2	2	1	9	6	4	2	2	1	1
GL8**	56 x 210	56 x 80	24	18	12	7	5	3	3	9	6	4	2	2	1	1
GL9**	56 x 310	56 x 80	34	26	20	11	7	5	4	9	6	4	2	2	1	1
GL10**	56 x 239	56 x 80	52	40	28	16	10	8	6	9	6	4	2	2	1	1
GL11**	82 x 204	82 x 170	55	40	24	18	12	8	6	45	30	20	15	9	6	4
GL11**D	127 x 202	127 x 168	55	40	24	18	12	8	6	45	30	20	15	9	6	4
GL12**	82 x 349	82 x 169	63	45	32	20	14	8	5	28	18	14	8	6	3	2
GL13**	82 x 349	82 x 324	63	45	32	20	14	8	5	54	39	27	18	13	6	5
GL14**	127 x 347	127 x 322	99	68	44	30	21	12	10	85	60	40	27	20	12	8
GL14**D	162 x 346	162 x 321	126	90	55	40	24	18	11	112	78	50	36	24	15	9

Cable gland standard type: polyamide Ex e cable glands

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

Dimensions



Legend

- A – Maximum external dimension
- B – Maximum external dimension
- C – Maximum external dimension
- D – Internal dimension
- E – Internal dimension
- F – Internal depth
- G – Fixing holes center
- H – Fixing holes center
- J – Fixing holes diameter
- [A] – Entry face
- [B] – Entry face
- [C] – Entry face
- [D] – Entry face

For details see Dimensions Data Table

Dimensions Data Table

Type	Dimensions [mm]			Dimensions internal [mm]			Fixation [mm]			Weight approx. [kg]	Cover fixing screws
	A	B	C	D	E	F	G	H	Diam. J		
GL1**	75	80	55	66.5	71.5	28	45	68.5	4.5	0.35	M4
GL2**	75	110	55	66.5	101.5	28	45	98	4.5	0.4	M4
GL3**	75	160	55	66.5	151.5	28	45	148	4.5	0.5	M4
GL4**	75	190	55	66.5	181.5	28	45	178.5	4.5	0.85	M4
GL5**	120	122	90	111	113	54	82	106	6.5	0.85	M6
GL6**	120	220	90	111	211	54	82	204	6.5	1	M6
GL7**	160	160	91	149	149	56	110	140	6.5	1.1	M6
GL8**	160	260	91	149	249	56	110	240	6.5	1.7	M6
GL9**	160	360	91	149	349	56	110	340	6.5	2	M6
GL10**	160	560	91	149	549	56	110	540	6.5	3.7	M6
GL11**	250	255	120	239	244	82	200	235	6.5	2.7	M6
GL11**D	250	255	165	239	244	127	200	235	6.5	3.1	M6
GL12**	250	400	120	239	389	82	200	380	6.5	3.4	M6
GL13**	405	400	120	394	389	82	355	380	6.5	5.1	M6
GL14**	405	400	165	394	389	127	355	380	6.5	5.5	M6
GL14**D	405	400	200	394	389	189	355	380	6.5	5.8	M6

Weight shows empty enclosure, it will increase according to terminal and cable gland installations

Type code / model number

Enclosure type

GL glass fiber reinforced polyester GRP

Enclosure size

1 ... 14 see dimensions data table

Earth continuity plate

0 none

1 galvanized steel

2 brass

3 stainless steel

Type of explosion protection

1 Ex e, Ex tb

3 Ex ia, Ex tb

Enclosure depth

standard depth, see dimensions data table

D increased depth

Type of solution

T terminal box

Item number

Yxxxxxx

GL					.T	-Yxxxxxx
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Optional accessories

M6 brass grounding stud assembly

M6 stainless steel grounding stud assembly

1.5 mm thick stainless steel mounting plate

A5 polycarbonate document wallet

A4 polycarbonate document wallet

Engraved traffolyte tag label

Engraved stainless steel tag label

Color in-fill stainless steel tag label

Release date 2014-03-04 T164621