

Панели управления и распределения (Ex d IIC) из нержавеющей стали

Технические характеристики

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Solutions Ex d IIC based on GUB Enclosures, Stainless Steel

GUBX*

- Stainless Steel enclosure
- Ex d and Ex tb certified
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Gas group IIC
- Various enclosure size and design variants
- Integration of electrical components and operating elements as per customer specification
- Customizable configuration of operators, cable entry quantities and cable gland types as per specification
- Thermo-resistant tempered glass window
- Degree of protection IP66 or IP66 / IP67

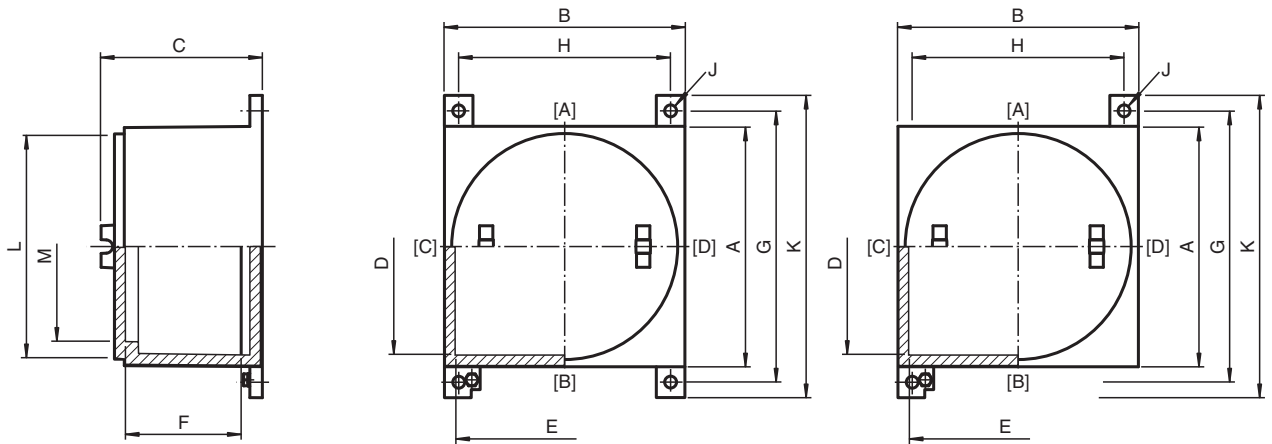


Function

The GUBX enclosure series forms the optimal basis for the application-specific configuration of terminal boxes as well as control and distribution panels. A wide range of components and control functions can be integrated in one of many size and design options of Ex d IIC and Ex tb certified flameproof enclosures. They are manufactured from high-quality stainless steel.

This durability and the comprehensive enclosure sizes cover the requirements of many industries including offshore and marine applications. A choice of windows allows viewing of integrated monitoring functions. Electrical components can be integrated as per customer specification.

Dimensions



Dimension values see data table.
 Real values might differ slightly due to manufacturing tolerances.
 Dimensions are valid for standard enclosures and IP66 variants only.
 Image and drawing are generic for this device type and may deviate from the specific variant.

Dimensions and Enclosure Details GUBX*

Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]			Diameter [mm]		Mounting brackets quantity	Mass approx. [kg]	Max. power dissipation at T4/+40 °C [W]
	A	B	C	K	D	E	F	G	H	J	L	M			
GUBX00*	112	112	131	163	92	92	98	145	95	8	112	97	2	5.3	48
GUBX0*	150	150	153	205	125	125	113	178	125	8	136	114	2	12	78
GUBX0H*	150	150	190	205	125	125	150	178	125	8	136	114	2	16	91
GUBX1*	200	200	157	255	173	173	110	228	178	10	189	163	2	23	122
GUBX1H*	200	200	197	251	173	173	150	228	178	10	189	163	2	27	143
GUBX1PF*	176	176	137	220	150	150	95	196	154	10	170	147	2	23	95
GUBX2*	256	256	160	305	225	225	114	275	232	10	235	206	4	30	181
GUBX3*	258	258	215	310	225	225	165	285	228	10	235	206	4	37	222
GUBX3L*	347	347	255	430	325	325	185	395	318	10	348	320	4	91	293
GUBX4*	440	440	316	530	410	410	228	485	410	14	437	406	4	180	466
GUBX4A*	440	440	246	530	410	410	158	485	410	14	437	406	4	155	400
GUBX5*	540	540	376	640	510	510	273	595	510	16	540	504	4	216	749

Mass is valid for empty enclosure, it will increase according to integrated components and cable glands
 Values might differ slightly due to manufacturing tolerances
 For custom designed solutions, such as for different temperature ranges, dimensions and mass may differ

Cable Entries max. Quantity per Size

Type	Cover	Faces A ... D										Bottom				
	M12	M20	M25	M32	M42	M50	M63	M75	M85	M110		M20	M25	M32	M42	M50
	1/4"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"		1/2"	3/4"	1"	1-1/4"	1-1/2"
GUBX00*	1	4	3	2	1	1	1	-	-	-		2	2	1	-	-
GUBX0*	1	6	5	3	2	2	1	1	-	-		4	3	1	-	-
GUBX0H*	1	10	8	4	3	2	1	1	1	1		4	3	1	-	-
GUBX1*	2	8	8	5	2	2	2	1	-	-		6	4	2	1	1
GUBX1H*	2	12	10	5	4	4	2	1	1	1		6	4	2	1	1
GUBX1PF*	1	8	6	3	2	2	1	-	-	-		4	3	1	1	1
GUBX2*	3	10	10	6	3	3	2	2	-	-		10	8	4	2	2
GUBX3*	3	20	15	10	6	5	3	2	2	1		10	8	4	2	2
GUBX3L*	8	30	25	15	8	8	5	3	2	1		20	12	10	4	4
GUBX4*	10	45	35	20	14	10	8	5	3	1		25	15	11	5	5
GUBX4A*	10	28	20	12	10	5	4	3	3	-		25	15	11	5	5
GUBX5*	12	70	60	35	20	15	12	6	5	3		35	20	18	6	6

Metric ISO pitch 1.5mm, NPT ANSI ASME B1.20.1
 Table shows drilling pattern for ambient temperature range -20 ... +60 °C.
 For lower temperatures please contract Pepperl+Fuchs
 For types of cable glands and combination of different gland sizes please contact Pepperl+Fuchs

Stainless steel GUBX* enclosures are available with extensions and various viewing windows, too
 For details please contact Pepperl+Fuchs

Technical Data

Electrical specifications		
Operating voltage		1500 V DC / 1000 V AC max.
Operating current		recommended: 1600 A max.
Mechanical specifications		
Thread type		metric ISO pitch 1.5 mm or NPT ANSI ASME B1.20.1
Enclosure cover		threaded round cover
Cover fixing		flamepath thread
Cover seal		none, O-ring for IP66/67
Degree of protection		IP66 (IP66/67 with O-ring)
Cable entry		see data table
Material		
Enclosure		AISI 316L stainless steel
Glass		thermo-resistant tempered glass
Finish		shot peened
O-Ring		silicone
Mass		see data table valid for empty enclosure, will increase according to integrated components

Technical Data

Dimensions		see data table values might differ slightly due to manufacturing tolerances for custom designed solutions dimensions and mass may differ
Mounting		see data table
Grounding		M6 external grounding points
Ambient conditions		
Ambient temperature		-60 ... 60 °C (-76 ... 140 °F) depending on integrated components
Data for application in connection with hazardous areas		
EU-type examination certificate		INERIS 14 ATEX 0035X INERIS 16 ATEX 9005U
Marking		Ⓔ II 2 GD Ex db IIC T* Gb Ex tb IIC 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
International approvals		
IECEx approval		IECEx INE 14.0042X IECEx INE 16.0051U
UKCA approval		CML 21 UKEX 21304X CML 21 UKEX 2976U
ECAS approval		22-09-51658/E22-09-051730/NB0002
CCoE approval		PESO A/P/HQ/KA/104/6018 (P558877)
CCC approval		2023122303116246
Further approvals		available on request
Conformity		
Degree of protection		EN 60529
CE marking		0080 or 0102, see type label
General information		
Ordering information		This solution will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.
Supplementary information		

Type Code

1	2	3	4	5		6		7		8
GUB	*	*	*	**	.	*	.	**	-	****
GUB	X			3	.	D	.	CP	-	Y0001

Example: GUBX3.D.CP-Y0001

Control panel GUB size 3 in stainless steel, without extension or window, without intrinsically safe circuits

1	Enclosure type
GUB	enclosure Ex d IIC
2	Material
X	stainless steel AISI 316L
3	Window
	no window
W	window
4	Enclosure variant
	standard variant
E	variant with extension
5	Enclosure size
00 ... 5	see dimensions data table

Type Code

6	Electrical circuits
D	without intrinsically safe circuits
I	intrinsically safe circuits integrated
7	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)
8	Variant number
Yxxxx	consecutive number

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