

Features

- Stainless Steel enclosure
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Ex e, Ex ia and Ex tb certified
- 6 enclosure size options
- Customizable configuration of terminals, cable entries and cable gland types as per specification
- Wide range of accessories available

Function

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

The enclosures are manufactured from electropolished 316L stainless steel as standard to provide excellent tarnish and corrosion resistance. This surface finish is ideally suited to meet hygienic requirements valid in pharmaceutical and food processing plants.

Durable materials allows the terminal box to be used in ambient temperatures between -50 °C and +120 °C.

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



Type Code / Model Number

Enclosure type

SL metal enclosure

Material

S stainless steel

Enclosure size

1 ... 6 see dimensions data table

Type of explosion protection

1 Ex e, Ex tb

3 Ex ia, Ex tb

5 Ex ia / Ex e, Ex tb

Type of solution

T terminal box

Variant number

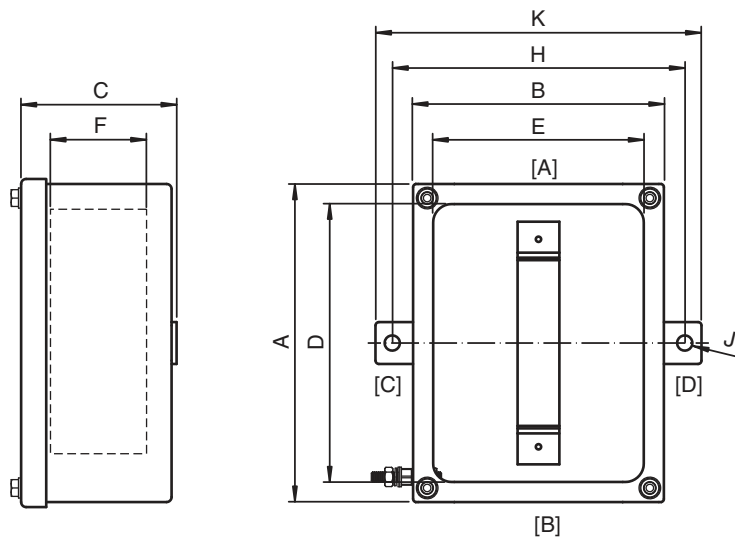
Cxxxxxx - configured variants

Yxxxxxx - engineered variants

SL	S	3	3	.T	Yxxxxxx
Example: Terminal box size 3, for intrinsically safe circuits, in stainless steel					

Technical Data	
Electrical specifications	
Operating voltage	690 V AC max.
Operating current	max. 109 A / max. 126 A
Mechanical specifications	
Dimensions	see data table
Enclosure cover	fully detachable
Cover fixing	stainless steel hexagonal head screws, see data table
Cover seal	one piece closed cell silicone
Degree of protection	IP66
Cable entry	see data table
Terminal type	Standard see data table, other terminal types optional
Mass	see data table see valid for empty enclosure, will increase according to integrated components
Grounding	M6 internal/external brass grounding bolt
Material	
Enclosure	1.5 mm 316L, (1.4404) stainless steel
Finish	electropolished
Ambient conditions	
Ambient temperature	-40 ... 40 °C (-40 ... 104 °F), optional -50 ... 120 °C (-58 ... 248 °F)
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	CML 16 ATEX 3008X
Marking	 II 2 GD Ex eb IIC T* Gb, Ex db eb IIC T* Gb, Ex tb IIIC T** Db or Ex ia IIC T* Gb, Ex tb IIIC T** Db or Ex eb IIC T* Gb, Ex ia IIC T* Gb, Ex tb IIIC T** Db T6/T80 °C @ Ta +40 °C T5/T95 °C @ Ta +55 °C T4/T125 °C @ Ta +85 °C T3/T160 °C @ Ta +120 °C
Maximum power dissipation	see data table
International approvals	
IECEx approval	IECEx CML 16.0007X
EAC approval	RU C-DE.BH02.B.00016/18
CCoE approval	PESO A/P/HQ/MH/104/4900 (P386871)
IA approval	MASC S/18-0004X
Conformity	
Degree of protection	EN60529
CE marking	0102
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	This terminal box will be delivered completely configured and assembled ready for use. For configuration details please contact customer service.
Accessories	
Optional accessories	Mounting plate M10 internal/external stainless steel grounding bolt M10 internal/external brass grounding bolt engraved traffolyte tag label engraved AISI 316L stainless steel tag label color in-fill stainless steel tag label

Dimensions



Legend

A	Height
B	Width
C	Depth
D	Internal height
E	Internal width
F	Internal depth to surface mounting plate
H	Mounting holes distance, horizontal
J	Mounting holes diameter
K	Maximum external dimension with mounting brackets
[A] ... [D]	Cable entry faces

Dimension values see data table.
Image and drawing are generic for this device type and may deviate from the specific variant.

Dimensions and Enclosure Details

Type	External dimensions [mm]				Internal dimensions [mm]			Mounting [mm]		Mass approx. [kg]	Cover screws			Max. power dissipation [W]
	A	B	C	K	D	E	F	H	J		Mx	qty.	Torque [Nm]	
SLS1*.T	110	110	65	155	86	86	32.5	135	9.1	1.2	M6	4	2	9
SLS2*.T	120	120	80	165	96	96	47.5	145	10.3	1.4	M6	4	2	9
SLS3*.T	150	120	80	165	126	96	47.5	145	10.3	1.6	M6	4	2	9
SLS4*.T	150	150	90	195	126	126	57.5	175	10.3	1.9	M6	4	2	11
SLS5*.T	190	150	90	195	166	126	57.5	175	10.3	2	M6	4	2	11
SLS6*.T	190	190	100	235	166	166	67.5	215	10.3	3	M6	4	2	13

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

Terminal Configurations with Standard Terminals

Type	DIN-Rails vertical				DIN-Rails horizontal				Terminal type	Terminal capacity [mm²]
	Number of rails	Usable length per rail [mm]	Terminals per rail	Terminals total	Number of rails	Usable length per rail [mm]	Terminals per rail	Terminals total		
SLS1*.T	-	-	-	-	1	53	10	10	AKZ	2.5
SLS2*.T	-	-	-	-	1	53	10	10	WDU	2.5
SLS3*.T	1	71	13	13	-	-	-	-	WDU	2.5
SLS4*.T	1	71	13	13	1	71	13	13	WDU	2.5
SLS5*.T	1	120	23	23	-	-	-	-	WDU	2.5
SLS6*.T	1	120	23	23	1	120	23	23	WDU	2.5

For other terminal types and terminal capacities please contact Pepperl+Fuchs

Cable Entries max. Quantity per Size

Type	Cable entry area		Faces A and B							Faces C and D						
	Faces A and B	Faces C and D	M12	M16	M20	M25	M32	M40	M50	M12	M16	M20	M25	M32	M40	M50
SLS1*.T	32.5 x 80	32.5 x 80	4	3	2	-	-	-	-	3	3	2	-	-	-	-
SLS2*.T	47.5 x 90	47.5 x 90	8	5	3	2	1	-	-	8	5	3	2	1	-	-
SLS3*.T	47.5 x 90	47.5 x 120	8	5	3	2	1	-	-	9	6	4	3	2	-	-
SLS4*.T	57.5 x 120	57.5 x 120	12	9	5	3	2	2	-	12	9	5	3	2	2	-
SLS5*.T	57.5 x 120	57.5 x 120	12	9	5	3	2	2	-	14	12	6	4	3	2	-
SLS6*.T	67.5 x 160	67.5 x 160	21	12	10	5	3	2	2	21	12	10	5	3	2	2

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

