

Terminal and Junction Boxes Ex e / Ex i with Return Flange, Stainless Steel

SR.T*

- Stainless Steel enclosure
- Installation in Zone 1, Zone 2, Zone 21 and Zone 22
- Installation in Class I, II, Division 2
- Ex eb, Ex ia and Ex tb certified
- 16 enclosure size options
- Return Flange Sealing provides Drain Channel
- Customizable configuration of terminals, cable entries and cable gland types as per specification
- Customizable configuration of gland plates, ground bolt and hinges as per specification
- Option for vertical or horizontal mounting provides high flexibility
- Up to 4 gland plates
- Wide range of accessories available

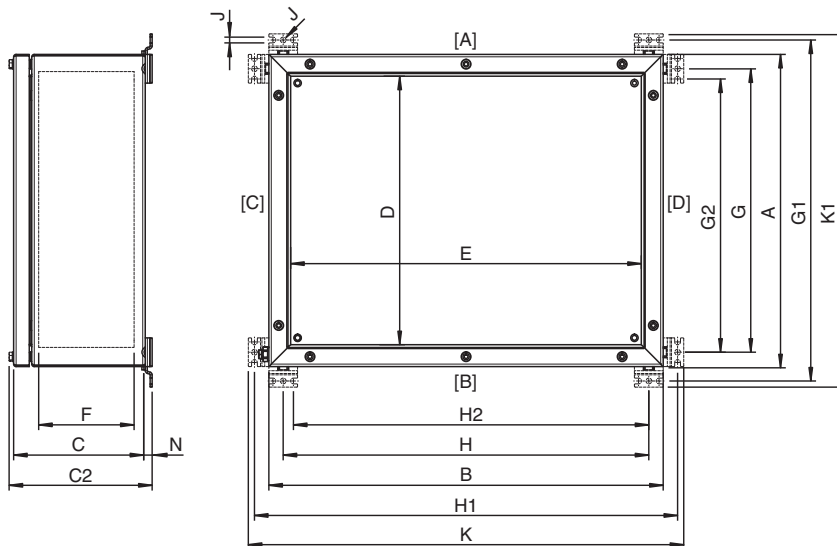
Terminal and Junction Boxes Ex e / Ex i with Return Flange, Stainless Steel



Function

The SR series is a flexible range of terminal boxes that are fully customizable. Enclosures can meet the needs of user specifications by being supplied with or without accessories such as cover hinges, mounting brackets or gland plates. Enclosures are manufactured from brushed AISI 316L stainless steel and all fixings are manufactured from A4 grade stainless steel as standard to provide excellent tarnish and corrosion resistance. Your solution can be mounted in portrait or landscape orientation in temperatures ranging from -60 °C up to +90 °C. For terminal and entry device configuration options please see overleaf. Further configurations can be confirmed by your local Pepperl+Fuchs office.

Dimensions



Release date: 2024-07-15 Date of issue: 2024-07-15 Filename: t195509_eng.pdf

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

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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]			Mass [kg]	Cover screws		
	A	B	C	C2	K	K1	D	E	F		Mx	qty.	Torque [Nm]
SRS.10.11.09	102	116	86	91	145	-	72	86	72	0.7	M6	4	3 - 3.5
SRS.11.14.09	116	142	86	91	-	145	86	112	72	1	M6	4	3 - 3.5
SRS.15.15.09	156	156	94	99	185	-	126	126	80	1.9	M6	4	3 - 3.5
SRS.15.19.09	156	196	94	99	225	-	126	166	80	2.5	M6	4	3 - 3.5
SRS.19.19.10	196	196	104	109	225	-	166	166	90	3	M6	4	3 - 3.5
SRM.26.26.09	260	260	87	101	310	310	206	206	51.5	5.3	M6	4	3 - 3.5
SRM.26.26.16	260	260	160	174	310	310	206	206	124.5	5.8	M6	4	3 - 3.5
SRM.26.26.22	260	260	220	234	310	310	206	206	184.5	6.3	M6	4	3 - 3.5
SRM.31.31.09	310	310	87	101	360	360	256	256	51.5	7.2	M6	4	3 - 3.5
SRM.31.31.16	310	310	160	174	360	360	256	256	124.5	8	M6	4	3 - 3.5
SRM.31.31.22	310	310	220	234	360	360	256	256	184.5	8.8	M6	4	3 - 3.5
SRM.38.48.09	380	480	87	101	430	530	326	426	51.5	11	M6	6	3 - 3.5
SRM.38.48.16	380	480	160	174	530	530	326	426	124.5	12	M6	6	3 - 3.5
SRM.38.48.22	380	480	220	234	530	530	326	426	184.5	13	M6	6	3 - 3.5
SRL.48.48.16	480	480	160	174	530	530	426	426	124.5	14	M6	8	3 - 3.5
SRL.48.48.22	480	480	220	234	530	530	426	426	184.5	16	M6	8	3 - 3.5
SRL.48.76.16	480	760	160	174	810	530	426	706	124.5	20	M6	8	3 - 3.5
SRL.48.76.22	480	760	220	234	810	530	426	706	184.5	22	M6	8	3 - 3.5

Mass is valid for empty enclosure, it will increase according to enclosure accessories, integrated components and entry devices
Values might differ slightly due to manufacturing tolerances

Mounting Dimensions and Details

Type	Mounting [mm]								
	G	G1	G2	H	H1	H2	J	N	screws qty.
SRS.10.11.09	41	-	-	-	130	-	6.1	1.5	4 (A)
SRS.11.14.09	-	130	-	107	-	-	6.1	1.5	4 (A)
SRS.15.15.09	95	-	-	-	170	-	6.1	1.5	4 (A)
SRS.15.19.09	95	-	-	-	210	-	6.1	1.5	4 (A)
SRS.19.19.10	135	-	-	-	210	-	6.1	1.5	4 (A)
SRM.26.26.09	225	295	212.5	225	295	212.5	7	8.5	4 (B)
SRM.26.26.16	225	295	212.5	225	295	212.5	7	8.5	4 (B)
SRM.26.26.22	225	295	212.5	225	295	212.5	7	8.5	4 (B)
SRM.31.31.09	275	345	262.5	275	345	262.5	7	8.5	4 (B)
SRM.31.31.16	275	345	262.5	275	345	262.5	7	8.5	4 (B)
SRM.31.31.22	275	345	262.5	275	345	262.5	7	8.5	4 (B)
SRM.38.48.09	345	415	332.5	445	515	432.5	7	8.5	4 (B)
SRM.38.48.16	345	415	332.5	445	515	432.5	7	8.5	4 (B)
SRM.38.48.22	345	415	332.5	445	515	432.5	7	8.5	4 (B)
SRL.48.48.16	445	515	432.5	445	515	432.5	7	8.5	4 (B)
SRL.48.48.22	445	515	432.5	445	515	432.5	7	8.5	4 (B)
SRL.48.76.16	445	515	432.5	725	795	712.5	7	8.5	4 (B)
SRL.48.76.22	445	515	432.5	725	795	712.5	7	8.5	4 (B)

screws qty.: Quantity of screws for direct mounting

(A) = fixed mounting brackets

(B) = optional mounting brackets enclosed

Terminal Configurations with Standard Terminals

Type	DIN-Rails vertical				DIN-Rails horizontal				Terminal type	Terminal capacity [mm ²]
	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		
SRS.10.11.09	1	34	6	6	-	-	-	-	WDU	2.5
SRS.11.14.09	1	75	14	14	-	-	-	-	WDU	2.5
SRS.15.15.09	1	110	21	21	1	110	21	21	WDU	2.5
SRS.15.19.09	1	110	21	21	1	150	29	29	WDU	2.5
SRS.19.19.10	1	150	29	29	1	150	29	29	WDU	2.5
SRM.26.26.09	2	180	35	70	2	180	35	70	WDU	2.5
SRM.26.26.16	2	180	35	70	2	180	35	70	WDU	2.5
SRM.26.26.22	2	180	35	70	2	180	35	70	WDU	2.5
SRM.31.31.09	2	230	45	90	2	230	45	90	WDU	2.5
SRM.31.31.16	2	230	45	90	2	230	45	90	WDU	2.5

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Type	DIN-Rails vertical				DIN-Rails horizontal				Terminal type	Terminal capacity [mm ²]
	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		
SRM.31.31.22	2	230	45	90	2	230	45	90	WDU	2.5
SRM.38.48.09	4	300	58	232	3	400	78	234	WDU	2.5
SRM.38.48.16	4	300	58	232	3	400	78	234	WDU	2.5
SRM.38.48.22	4	300	58	232	3	400	78	234	WDU	2.5
SRL.48.48.16	4	400	78	312	4	400	78	312	WDU	2.5
SRL.48.48.22	4	400	78	312	4	400	78	312	WDU	2.5
SRL.48.76.16	6	400	78	468	4	680	133	532	WDU	2.5
SRL.48.76.22	6	400	78	468	4	680	133	532	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 [mm]	Faces C and D [mm]	M16	M20	M25	M32	M16	M20	M25	M32
SRS.10.11.09	100 x 60	86 x 60	4	3	2	1	2	1	1	-
SRS.11.14.09	126 x 60	100 x 60	5	4	2	1	4	3	2	1
SRS.15.15.09	140 x 65	140 x 65	8	6	3	2	7	5	3	2
SRS.15.19.09	180 x 65	140 x 65	10	8	5	3	7	5	3	2
SRS.19.19.10	180 x 75	180 x 75	13	8	7	3	13	7	6	2
SRM.26.26.09	210 x 55	210 x 55	7	6	5	4	7	5	5	3
SRM.26.26.16	210 x 88	160 x 88	26	20	14	6	26	20	14	6
SRM.26.26.22	210 x 148	160 x 148	45	31	21	8	45	31	21	7
SRM.31.31.09	260 x 55	260 x 55	8	6	5	5	8	6	5	4
SRM.31.31.16	300 x 128	250 x 128	34	26	17	7	34	26	17	7
SRM.31.31.22	300 x 188	250 x 188	58	39	26	12	58	39	26	12
SRM.38.48.09	420 x 55	320 x 55	10	7	6	8	9	7	6	6
SRM.38.48.16	420 x 128	320 x 128	54	45	27	13	42	34	23	11
SRM.38.48.22	420 x 188	320 x 188	101	72	48	21	72	49	36	16
SRL.48.48.16	470 x 128	420 x 128	54	45	27	13	54	45	27	13
SRL.48.48.22	470 x 188	420 x 188	101	72	48	21	101	72	48	21
SRL.48.76.16	700 x 128	420 x 128	96	76	49	25	54	45	27	13
SRL.48.76.22	700 x 188	420 x 188	169	120	82	37	101	72	48	21

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

Technical Data

Electrical specifications

Operating voltage	1100 V AC / DC max. for ATEX / IECEx
Operating current	350 A max. , depending on size and certification

Mechanical specifications

Enclosure cover	fully detachable
Cover fixing	stainless steel A4 (V4A) hexagonal head screws , see data table
Cover seal	silicone
Degree of protection	IP66 , Type 4X
Cable entry	see data table
Gland plate on face(s)	optional
Terminal assembly	
Number of rails	see data table
Terminal type	Standard see PDF datasheet, other terminal types optional
Number of terminals per rail	see data table
Material	
Enclosure	1.5 mm AISI 316L, (1.4404) stainless steel
Gland plate	optional 3 mm or 6 mm AISI 316L (1.4404) stainless steel
Finish	brushed
Mass	see data table valid for empty enclosure, will increase according to integrated components
Shock resistance	IK09, IK10
Dimensions	see data table

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Technical Data

Mounting	screws , optional mounting brackets enclosed
Grounding	M6 internal/external brass nickel-plated grounding bolt M6 internal stainless steel grounding bolt welded to lid M6 internal stainless steel grounding bolt welded to enclosure body
Ambient conditions	
Ambient temperature	-60 ... 65 °C (-76 ... 149 °F)
Data for application in connection with hazardous areas	
EU-type examination certificate	CML 20 ATEX 3156X
Marking	Ⓢ II 2 GD Ex eb IIC T* Gb, Ex tb IIIC T** Db or Ex ia IIC T* Gb T6/T80 °C @ Ta +40 °C T5/T95 °C @ Ta +55 °C T4/T130 °C @ Ta +60 °C
International approvals	
IECEx approval	IECEx CML 20.0094X
UKCA approval	CML 21 UKEX 3892X
ETL approval	
ETL certificate	Intertek 5003368 , Intertek 5022079
Approved for	Class I, Division 2, Groups A, B, C, D Class II, Division 2, Groups F, G Class III
cETLus	according to UL 1773 , UL 121201 , CSA C22.2, No. 40, 213
Ambient temperature	-40 ... 65 °C (-40 ... 149 °F)
ECAS approval	23-08-81524/E23-08-083807
CCoE approval	PESO A/P/HQ/KA/104/5946 (P528900)
CCC approval	2023122303116185
Conformity	
Degree of protection	EN60529 and UL 50 / UL 50E
Shock resistance	EN IEC 62262
CE marking	0102
General information	
Ordering information	This device 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 .
Accessories	
Optional accessories	Mounting plate M6 internal/external stainless steel grounding bolt cover hinges stainless steel AISI 316L gland plate 3 mm AISI 316L (1.4404) stainless steel gland plate 6 mm AISI 316L (1.4404) stainless steel M6 internal stainless steel grounding bolt welded to bottom gland plate quarter-turn key locks stainless steel A4 (V4A) engraved traffolyte tag label engraved AISI 316L stainless steel tag label color in-fill stainless steel tag label cover padlock facility eyebolts door handles

Type Code

1	2	3	4	5	6	7	8	9
SR	*	*	*	*	*	*	*	*
SR	TBI	38	48	16	B	1	S	0001

Example: SR.TBI.38.48.16.B.1-S0001

Terminal box stainless steel for intrinsically safe circuits, size 38x48x16 cm, landscape orientation with face B at bottom, gland plate at bottom face, standard product

1	Enclosure type
SR	stainless steel

Type Code

2	Type of solution
TJE	junction box (Ex e)
TJI	junction box (Ex i)
TBE	terminal box (Ex e)
TBI	terminal box (Ex i)
TBM	terminal box, various types of explosion protection, e.g. (Ex e, Ex i) or (Ex e, Ex op pr)
TB1	terminal box with one terminal
3	Height [cm]
n	see dimensions data table
4	Width [cm]
n	see dimensions data table
5	Depth [cm]
n	see dimensions data table
6	Cable entry face orientation
B	face [B] at bottom (landscape with rectangular enclosure)
D	face [D] at bottom (portrait with rectangular enclosure)
7	Gland plates
0	none
1	one gland plate at bottom face
2	two gland plates
3	three gland plates
4	four gland plates
8	Variant
S	standard product
C	configured product
CA	configured and adapted product
Y	engineered product
9	Variant number
*	consecutive item number