


Terminal Boxes SR.T* Stainless Steel

Marking

Terminal Boxes, Stainless Steel SR.T*
ATEX certificate: CML 20 ATEX 3156X ATEX 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
IECEX certificate: IECEX CML 20.0094X CCC certificate: 2023122303116185 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

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

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Target Group, Personnel

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

The personnel must be appropriately trained and qualified in order to carry out mounting, installation, commissioning, operation, maintenance, and dismantling 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 SR* 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.

The terminal boxes are used to distribute electrical energy and electrical signals in hazardous areas. They must be installed in fixed installations.

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

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 60079-31 regarding excessive dust deposits.

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

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.

The permitted ambient temperatures of the built-in components must not be exceeded.

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

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

Ensure that unused terminal screws are properly tightened down.

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.

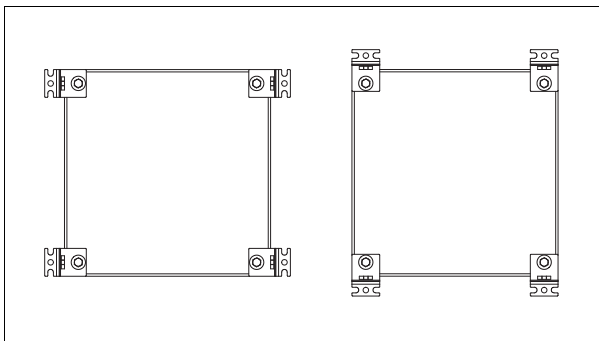
If mounting the enclosure on concrete use expansion anchors. When mounting the enclosure to a steel framework use vibration resistant mounting material.

Ensure that the enclosure is mounted on a flat surface. This prevents the deformation of the enclosure and ensures the safe sealing function of the cover seal.

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.

Installation Sequence



i Note

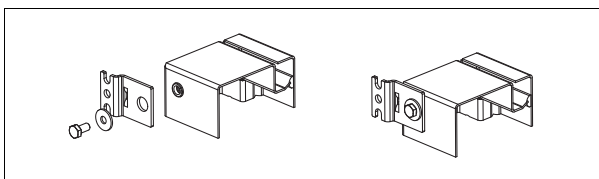
Eyebolts fitted to the enclosure for transportation purposes must be removed prior to energizing the enclosure. All open holes in the enclosure need to be closed by appropriate stopping plugs before energizing the enclosure (see 'Mounting Instructions Eyebolts').

Enclosures can be installed either by means of separate mounting brackets or directly by using the screw holes in the enclosure rear.

Use all existing screw holes for mounting the enclosure.

It is recommended to use screws according to ISO 4762 or equivalent.

Follow below instructions when using the optional mounting brackets in horizontal position.



1. Screw the brackets to the screw holes in the enclosure rear
2. Mark the upper screw positions on the mounting surface
3. Fix all upper screws to the mounting surface
4. Ensure that the enclosure is separately supported and hang it on to the screws by using the bottom notches of the upper brackets
5. Mark the lower screw positions using the central holes of the lower brackets
6. Drill the appropriate screw holes into the mounting surface
7. Fix the lower mounting brackets to the mounting surface by using the central holes
8. Tighten all mounting screws with the appropriate torque

i Note

Torque moments depend on the used screws and the material where they are screwed into.

If using the mounting brackets in vertical position always use the central bracket holes.

General use of door handles

The following door handle applications are possible:

1. Hinged doors (1 door handle)
1 door handle supports the manual opening and closing of the hinged cover.
2. Screw-on covers (minimum 2 door handles)
A minimum of 2 door handles support the manual opening, closing and carrying of screw-on covers.

i Note

For screw-on type covers only, use all available door handles when opening, closing or carrying them.



Warning!

Proper installation of door handles

Make sure that the door handle is properly installed before use. If the door handle is not properly installed, do not use it.



Warning!

Lifting and carrying the enclosure

Do not use the door handles to lift and carry the enclosure, even in combination with lifting lugs, ropes, slings, belts or similar.



Warning!

Lifting and carrying the enclosure

Do not use the door handles with a crane, forklift or similar to lift and carry the enclosure or the cover.

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.

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.

Requirements for Internal Components

In order to guarantee the temperature classes, ensure that power dissipation is lower than the figure stated in the certificate. Most of the power dissipation arises from current flowing in the cables.

If you install the devices in ambient temperatures above +40 °C, the temperature at the cable glands may exceed the ambient temperature by 40 K when the maximum allowed power is dissipated.

Only use cables and connection lines with a temperature range appropriate to the application.

Keep the separation distances between all non-intrinsically safe circuits and intrinsically safe circuits according to IEC/EN 60079-14.

Only use suitably certified terminals.

Ensure that the terminals are in good condition and are not damaged or corroded.

The terminals may have several connections.

Only use one connection per terminal in this application.

Observe the tightening torque of the terminal screws.

Use the shortest possible cable lengths and avoid small core cross sections.

Use only one conductor per terminal.

Observe the minimum bending radius of the conductors.

When installing the conductors the insulation must reach up to the terminal.

When using stranded conductors, crimp wire end ferrules on the conductor ends.

Unused cables and connection lines must be either connected to terminals or securely tied down and isolated.

Insulation by tape alone is not permitted.

The use of jumpers may reduce the maximum permissible voltage of the device. Only use jumpers are listed in the certificate of the terminal manufacturer.

Observe the instruction manual and the certificate of the installed apparatus.

Refer to the corresponding technical data of the installed components for the actual type of protection or any possible restrictions.

Do not bunch more than 6 conductors to avoid hot spots.

Arrange the earth connections for incoming and outgoing cables in a way that the ground fault current is not routed between separate grounding plates.

Contact Pepperl+Fuchs before installing additional components. Pepperl+Fuchs will check whether these components are listed in the certificate. The maximum power dissipation of this installation solution must be within the permitted limits.

Do not install fuse terminals, relays, miniature circuit breakers, contactors etc. in the enclosure.

Rules for installing additional terminals

The following rules apply only to ATEX / IECEx solutions.

It is allowed to add terminals in accordance with the maximum permitted power dissipation. For calculation and terminal capacity tables please refer to section 'Maximum Terminal Capacity'.

Rules for bringing in additional thru-holes for cable glands

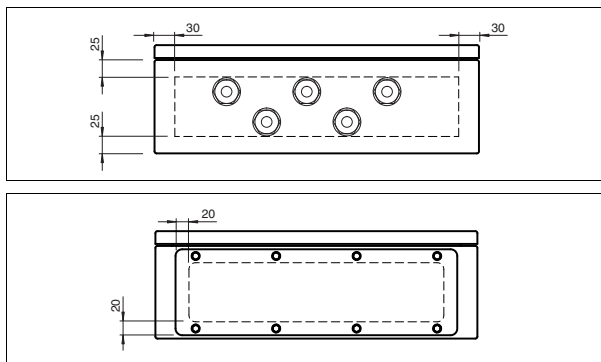
The following rules apply only to ATEX / IECEx solutions.

Determine if the space needed for the additional holes does not affect the stability of the enclosure wall and therefore the effectiveness of the gasket system.

In case of doubts contact Pepperl+Fuchs.

Maintain the minimum distances to enclosure rims and bottom as shown in the drawings.

Thru-holes for plain entries must have a diameter of not more than 0.7 mm greater than the nominal diameter of the entry thread of cable gland or fitting.



Calculate the minimum distance from the center of the additional thru-hole to the center of an already existing adjacent thru-hole by means of one of the following formulas:

1. Calculation via diameters

HSN = diameter of adjacent thru-hole

HSA = diameter of additional thru-hole

Minimum distance between centers = $1.5 \times (HSN + HSA) / 2$

2. Calculation via widths across corners

WCN = width across corners of adjacent cable gland

WCA = width across corners of additional cable gland

Minimum distance between centers = $1.2 \times (WCN + WCA) / 2$

Fabricate the additional thru-holes with an appropriate tooling method.

Ensure the thru-hole diameters are fitting to the gaskets and cable glands to be installed.

Ensure the enclosure surfaces around the thru-holes are undamaged in order to maintain the IP-protection.

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.

Before opening the enclosure make sure that the built-in components are de-energized.

When energized, the enclosure may only be opened for maintenance, if only intrinsically safe circuits are used inside the enclosure.

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.

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.

Ensure that all fasteners are present.

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

Before assembly, check that the seal and sealing surface are clean and in good condition to ensure the degree of protection.

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.

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	SR.T* - see type code table
Electrical specifications	
Operating voltage	1100 V AC / DC max. for ATEX / IECEx see certification label
Operating current	350 A max. dependent on terminals and equipment fitted, but must not exceed maximum see certification label
Mechanical specifications	
Dimensions	see data table
Enclosure cover	fully detachable
Degree of protection	IP66, Type 4X
Mass	see data table valid for empty enclosure, will increase according to integrated components
Shock resistance	IK09, IK10
Mounting	screws, optional mounting brackets enclosed
Cable entry	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
Cover seal	silicone
Cover fixing	stainless steel A4 (V4A) hexagonal head screws, see data table
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	
Maximum power dissipation	Dependent on enclosure size See certification label
Conformity	
Degree of protection	EN60529 and UL 50 / UL 50E
Shock resistance	EN IEC 62262
CE marking	0102

Typecode / Model Number

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

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

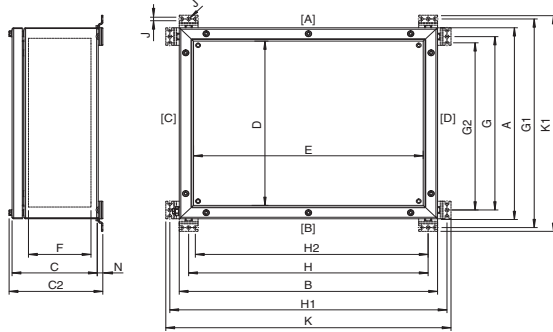
8	Variant
S	standard product
C	configured product
CA	configured and adapted product
Y	engineered product

9	Variant number
*	consecutive item number

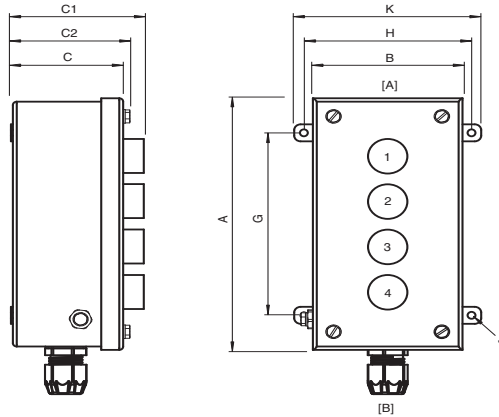
Variant-Specific Data

Dimensions and Enclosure Details

SRM.*, SRL.*, SRX.*



LRS*./SRS.*



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.19.38.16	190	380	160	174	430	240	136	326	124.5	6.2	M6	4	3 - 3.5
SRM.23.30.16	230	300	160	174	350	280	176	246	124.5	5.8	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.38.38.16	380	380	160	174	430	430	326	326	124.5	10	M6	4	3 - 3.5
SRM.38.38.22	380	380	220	234	430	430	326	326	184.5	11	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

Brief Instructions

Terminal Boxes SR.T* Stainless Steel

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Type	External dimensions [mm]						Internal dimensions [mm]			Mass [kg]	Cover screws		
	A	B	C	C2	K	K1	D	E	F		Mx	qty.	Torque [Nm]
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.19.38.16	155	225	142.5	345	415	332.5	7	8.5	4 (B)
SRM.23.30.16	195	265	182.5	265	335	252.5	7	8.5	4 (B)
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 (A)
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.38.38.16	345	415	332.5	345	415	332.5	7	8.5	4 (B)
SRM.38.38.22	345	415	332.5	345	415	332.5	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.19.38.16	3	110	21	63	1	300	58	58	WDU	2.5
SRM.23.30.16	2	150	29	58	1	220	43	43	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
SRM.31.31.22	2	230	45	90	2	230	45	90	WDU	2.5
SRM.38.38.16	3	300	58	174	3	300	58	174	WDU	2.5
SRM.38.38.22	3	300	58	174	3	300	58	174	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.19.38.16	320 x 128	130 x 128	42	34	23	11	14	11	7	3
SRM.23.30.16	240 x 128	170 x 128	28	24	15	7	17	12	7	5
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.38.38.16	370 x 128	320 x 128	42	34	23	11	42	34	23	11
SRM.38.38.22	370 x 188	320 x 188	72	49	36	16	72	49	36	15
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

Maximum Terminal Capacity

Maximum number of terminals in relation to the cross-section and the permissible continuous current, based on terminal type WDU.

Calculation of terminals quantities:

$$\sum_{k=0}^n \frac{\text{installed terminals quantity}}{\text{permitted terminals quantity}} < 1$$

Example:

1. Enclosure type SR.T*.38.38.16
2. 11 x 6 mm² terminals with an application current of 24 A consume 50% of the rated power dissipation [11 (installed terminal quantity) / 22 (permitted terminal quantity)]
3. 18 x 2.5 mm² terminals with an application current of 10 A consume 24% of the rated power dissipation [18 (installed terminal quantity) / 74 (permitted terminal quantity)]
4. Installation of additional 5 terminals with 2.5 mm² and an application current of 10 A will consume 7% of the rated power dissipation
5. 50% + 24% + 7% = 81% < 100%
6. Result: installation of the additional terminals is permissible

The values shown below are those which result in a maximum 40 degrees rise within the enclosure. Please consult with Pepperl+Fuchs for different temperature rises.

When using below tables, the simultaneous factor or the rated load factor in accordance with IEC 60439 must be taken into consideration.

Terminals carrying only intrinsically safe circuits or grounding terminals may be added in any number within the physical capacity of the enclosure.

Terminals shall not be installed within the upper 25% of the height of the enclosure.

Enclosure type:	SRS.10.11.09					
Maximum permitted power dissipation [W]:	5.5					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	14	14	12	9	7	6
5	14	14	12	9	7	6
10	14	14	12	9	7	6
16	5	8	12	9	7	6
20	0	0	12	9	7	6
24	0	0	4	9	7	6
35	0	0	0	2	4	6
50	0	0	0	0	0	5
63	0	0	0	0	0	1

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Enclosure type:	SRS.11.14.09					
Maximum permitted power dissipation [W]:	6.3					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	19	19	16	12	9	8
5	19	19	16	12	9	8
10	19	19	16	12	9	8
16	5	8	16	12	9	8
20	0	0	12	12	9	8
24	0	0	5	12	9	8
35	0	0	0	2	4	8
50	0	0	0	0	0	6
63	0	0	0	0	0	1

Enclosure type:	SRS.15.15.09					
Maximum permitted power dissipation [W]:	7.7					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	22	22	18	14	11	9
5	22	22	18	14	11	9
10	22	22	18	14	11	9
16	5	8	18	14	11	9
20	0	0	13	14	11	9
24	0	0	5	14	11	9
35	0	0	0	2	5	9
50	0	0	0	0	0	6
63	0	0	0	0	0	2

Enclosure type:	SRS.15.19.09					
Maximum permitted power dissipation [W]:	8.6					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	29	29	25	18	15	12
5	29	29	25	18	15	12
10	29	29	25	18	15	12
16	5	9	25	18	15	12
20	0	0	13	18	15	12
24	0	0	5	17	15	12
35	0	0	0	2	5	12
50	0	0	0	0	0	7
63	0	0	0	0	0	2

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Enclosure type:	SRS.19.19.10					
Maximum permitted power dissipation [W]:	10.2					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	29	29	25	18	15	12
5	29	29	25	18	15	12
10	29	29	25	18	15	12
16	6	9	25	18	15	12
20	0	0	14	18	15	12
24	0	0	5	18	15	12
35	0	0	0	2	5	12
50	0	0	0	0	0	7
63	0	0	0	0	0	2

Enclosure type:	SR.19.38.16					
Maximum permitted power dissipation [W]:	18					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	60	60	50	38	30	25
5	60	60	50	38	30	25
10	44	60	50	38	30	25
16	6	11	39	38	30	25
20	0	0	17	38	30	25
24	0	0	6	22	30	25
35	0	0	0	2	6	25
50	0	0	0	0	0	9
63	0	0	0	0	0	2

Enclosure type:	SR.23.30.16					
Maximum permitted power dissipation [W]:	17.7					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	45	45	38	28	23	19
5	45	45	38	28	23	19
10	45	45	38	28	23	19
16	7	12	38	28	23	19
20	0	0	18	28	23	19
24	0	0	7	23	23	19
35	0	0	0	2	7	19
50	0	0	0	0	0	10
63	0	0	0	0	0	2

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Enclosure type:	SR.26.26.09					
Maximum permitted power dissipation [W]:	14.4					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	75	75	63	47	38	32
5	75	75	63	47	38	32
10	42	67	63	47	38	32
16	6	10	37	47	38	32
20	0	0	16	38	38	32
24	0	0	6	20	36	32
35	0	0	0	2	6	29
50	0	0	0	0	0	8
63	0	0	0	0	0	2

Enclosure type:	SR.26.26.16					
Maximum permitted power dissipation [W]:	17.7					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	75	75	63	47	38	32
5	75	75	63	47	38	32
10	49	75	63	47	38	32
16	7	12	43	47	38	32
20	0	0	19	44	38	32
24	0	0	7	24	38	32
35	0	0	0	2	7	32
50	0	0	0	0	0	10
63	0	0	0	0	0	2

Enclosure type:	SR.26.26.22					
Maximum permitted power dissipation [W]:	20.4					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	75	75	63	47	38	32
5	75	75	63	47	38	32
10	53	75	63	47	38	32
16	7	13	47	47	38	32
20	0	0	20	47	38	32
24	0	0	7	26	38	32
35	0	0	0	3	7	32
50	0	0	0	0	0	11
63	0	0	0	0	0	2

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Enclosure type:	SR.31.31.09					
Maximum permitted power dissipation [W]:	12.1					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	94	94	79	59	48	40
5	94	94	79	59	48	40
10	30	49	79	59	48	40
16	4	8	27	53	48	40
20	0	0	12	28	47	40
24	0	0	4	15	26	40
35	0	0	0	2	4	22
50	0	0	0	0	0	6
63	0	0	0	0	0	2

Enclosure type:	SR.31.31.16					
Maximum permitted power dissipation [W]:	15.6					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	94	94	79	59	48	40
5	94	94	79	59	48	40
10	37	61	79	59	48	40
16	5	9	33	59	48	40
20	0	0	15	34	48	40
24	0	0	5	18	33	40
35	0	0	0	2	5	27
50	0	0	0	0	0	8
63	0	0	0	0	0	2

Enclosure type:	SR.31.31.22					
Maximum permitted power dissipation [W]:	18.5					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	94	94	79	59	48	40
5	94	94	79	59	48	40
10	42	69	79	59	48	40
16	6	11	38	59	48	40
20	0	0	16	39	48	40
24	0	0	6	21	37	40
35	0	0	0	2	6	31
50	0	0	0	0	0	9
63	0	0	0	0	0	2

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Enclosure type:	SR.38.38.16					
Maximum permitted power dissipation [W]:	22.3					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	182	182	152	115	92	77
5	182	182	152	115	92	77
10	45	74	152	115	92	77
16	6	11	40	79	92	77
20	0	0	18	41	71	77
24	0	0	6	22	40	77
35	0	0	0	2	6	34
50	0	0	0	0	0	10
63	0	0	0	0	0	2

Enclosure type:	SR.38.38.22					
Maximum permitted power dissipation [W]:	25.8					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	182	182	152	115	92	77
5	182	182	152	115	92	77
10	50	83	152	115	92	77
16	7	13	45	89	92	77
20	0	0	20	46	80	77
24	0	0	7	25	45	77
35	0	0	0	3	7	38
50	0	0	0	0	0	11
63	0	0	0	0	0	2

Enclosure type:	SR.38.48.09					
Maximum permitted power dissipation [W]:	22.4					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	239	239	201	152	122	102
5	239	239	201	152	122	102
10	41	68	141	152	122	102
16	6	10	37	73	122	102
20	0	0	16	38	66	102
24	0	0	6	21	37	88
35	0	0	0	2	6	31
50	0	0	0	0	0	9
63	0	0	0	0	0	2

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Enclosure type:	SR.38.48.16					
Maximum permitted power dissipation [W]:	27.1					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	239	239	201	152	122	102
5	239	239	201	152	122	102
10	49	80	167	152	122	102
16	7	12	44	86	122	102
20	0	0	19	45	78	102
24	0	0	7	24	44	102
35	0	0	0	2	7	37
50	0	0	0	0	0	10
63	0	0	0	0	0	2

Enclosure type:	SR.38.48.22					
Maximum permitted power dissipation [W]:	30.9					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	239	239	201	152	122	102
5	239	239	201	152	122	102
10	54	89	186	152	122	102
16	8	13	49	96	122	102
20	0	0	21	50	87	102
24	0	0	8	27	49	102
35	0	0	0	3	8	41
50	0	0	0	0	0	12
63	0	0	0	0	0	3

Enclosure type:	SR.48.48.16					
Maximum permitted power dissipation [W]:	33.6					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	319	319	268	202	163	136
5	319	319	268	202	163	136
10	55	91	190	202	163	136
16	8	14	50	98	163	136
20	0	0	22	51	89	136
24	0	0	8	28	50	119
35	0	0	0	3	8	43
50	0	0	0	0	0	12
63	0	0	0	0	0	3

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Enclosure type:	SR.48.48.22					
Maximum permitted power dissipation [W]:	38.1					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	319	319	268	202	163	136
5	319	319	268	202	163	136
10	61	101	211	202	163	136
16	9	15	55	109	163	136
20	0	0	24	57	99	136
24	0	0	9	31	55	133
35	0	0	0	3	9	47
50	0	0	0	0	0	13
63	0	0	0	0	0	3

Enclosure type:	SR.48.76.16					
Maximum permitted power dissipation [W]:	49.8					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	535	535	448	339	272	228
5	387	535	448	339	272	228
10	63	105	219	339	272	228
16	9	16	57	113	193	228
20	0	0	25	59	104	221
24	0	0	9	32	58	141
35	0	0	0	3	9	50
50	0	0	0	0	0	14
63	0	0	0	0	0	3

Enclosure type:	SR.48.76.22					
Maximum permitted power dissipation [W]:	55.1					
Permitted number of terminals based on terminal capacity and application current:						
Terminal capacity [mm ²]						
Current [A]:	1.5	2.5	4	6	10	16
3	535	535	448	339	272	228
5	423	535	448	339	272	228
10	69	114	239	339	272	228
16	10	17	63	124	211	228
20	0	0	27	65	113	228
24	0	0	10	35	63	154
35	0	0	0	3	10	55
50	0	0	0	0	0	15
63	0	0	0	0	0	3