

Installation, Operation & Maintenance Sheet

CUBE✕

**Explosion Proof and
Dust-Ignition Proof
Classified Enclosure
in Aluminum or
Stainless Steel**

> 8264/6 Enclosure



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2 General Information

2.1 Manufacturer







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2.2 Information regarding this Installation, Operation and Maintenance Sheet

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 We reserve the right to make technical changes without notice.

2.3 Symbols Used

	Action request: Describes actions to be carried out by the user.
	Reaction sign: Describes the results or the reactions to the actions taken.
	Bullet
	Commentary sign: describes the notes and recommendations.
	Warning sign: Danger from energised parts!
	Warning sign: Danger due to an explosive atmosphere!

3 General Safety Information

3.1 Safety Instructions for Assembly and Operating Personnel

The Installation, Operation and Maintenance Sheet contains basic safety instructions which are to be observed during installation, operation and maintenance.

Failure to follow this document and manufacturer's recommendations can lead to persons, equipment and the environment being endangered.

WARNING

Risk due to unauthorized work being performed on the device!

- ▷ There is a risk of injury and damage to equipment.
- ▶ Mounting, installation, commissioning and servicing work must only be performed by personnel who are both authorized and suitably trained for this purpose.

Before assembly/commissioning:

- ▶ Read through the operating instructions completely.
- ▶ Give adequate training to the assembly and operating personnel.
- ▶ Ensure that the contents of the operating instructions are fully understood by the personnel in charge, and those performing the work.
- ▶ The national and local installation and assembly regulations apply.

If you have questions:

- ▶ Contact the manufacturer.

When operating the device:

- ▶ Ensure the operating instructions are made available on location at all times.
- ▶ Observe safety instructions.
- ▶ Observe national and local safety and accident prevention regulations.
- ▶ Only run the device according to its performance data.
- ▶ Servicing/maintenance work or repairs which are not described in the operating instructions must not be performed without prior agreement with the manufacturer.
- ▶ Any damage may render explosion protection null and void.
- ▶ No changes to the devices or components impairing their explosion protection are permitted.
- ▶ The device may only be fitted and used if it is in an undamaged, dry and clean state.

3.2 Warnings

Warnings are sub-divided in these operating instructions according to the following scheme:

WARNING

Type and source of the danger!

- ▷ Possible consequences.
- ▶ Measures to avoid danger.

They are always identified by the signalling word "WARNING" and sometimes also have a symbol which is specific to the danger involved.

3.3 Hazardous Location Ratings and Applicable Standards

The explosion proof and dust-ignition proof enclosures are in compliance with the following standards:

UL 50	Enclosures for Electrical Equipment
UL 2062	Enclosures for Use in Hazardous (Classified) Locations
UL 1203	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
CSA C22.2-No. 25	Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA C22.2-No. 30	Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products

4 Application

The enclosures are used to build motor starters, control stations and terminal boxes.

Furthermore they are suitable for measuring equipment and customer specific control units.

The enclosures are designed for use in Class I, Div. 1, Groups B, C + D; Class II, Div.1, Groups E, F + G and Class III hazardous (classified) locations as defined by the National Electrical Code (NFPA70) and the Canadian Electrical Code (CEC).

The enclosure units can be installed as components in Ex e control systems. A typical application is as an enclosure for motor protection power switches in lighting and heating circuit distributors.

Covers with windows together with mounting plates and DIN rails are available to complete the series of enclosures.

For cable installation suitable cable and glands need to be used.

 **WARNING**

Only use the device for its intended purpose!

- ▷ Otherwise, the manufacturer's liability and warranty expire.
- ▶ Only use the device under the operating conditions described in the operating instructions.

5 Technical Data

Gas explosion protection Class I, Division 1, Groups B, C & D
Class I, Zone 1, Group IIB + H₂

Dust explosion protection Class II, Division 1, Groups E, F & G
Class III

Certification



UL-File E307783

Type rating

3, 4, 4x, 7 and 9

Housing material

8264/6...-2: Stainless steel
8264/6...-3: Aluminum, copper free (Marine Grade)

Weight

Stainless steel			Aluminum		
Enclosure Type	Total in lbs. (kg)	Cover in lbs. (kg)	Enclosure Type	Total in lbs. (kg)	Cover in lbs. (kg)
8264/6112-2	71 (32)	20 (9)	8264/6114-3	26 (12)	8 (4)
8264/6212-2	115 (52)	31 (14)	8264/6214-3	44 (20)	11 (5)
8264/6222-2	181 (82)	51 (23)	8264/6224-3	60 (27)	17 (8)
8264/6223-2	143 (65)	51 (23)	8264/6225-3	71 (32)	17 (8)
8264/6323-2	243 (110)	68 (31)	8264/6325-3	93 (42)	23 (11)
8264/6333-2	309 (140)	95 (43)	8264/6335-3	115 (52)	31 (14)
8264/6933-2	408 (185)	148 (67)	8264/6935-3	198 (90)	69 (32)
8264/6993-2	595 (270)	209 (95)	8264/6995-3	331 (150)	106 (48)

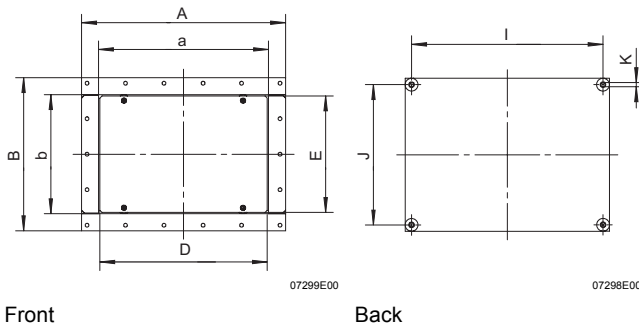
Tightening torque

Stainless steel			Aluminum		
Enclosure Type	Tightening Torque in lbf.-ft. (Nm)	Cover screws	Enclosure Type	Tightening Torque in lbf.-ft. (Nm)	Cover screws
8264/6112-2	14.8 (20)	Cyl. screws M10x30 A4-70 acc. ISO 4762	8264/6114-3	14.8 (20)	Cyl. screws M10x30 A4-70 acc. ISO 4762
8264/6212-2	14.8 (20)		8264/6214-3	14.8 (20)	
8264/6222-2	14.8 (20)		8264/6224-3	14.8 (20)	
8264/6223-2	14.8 (20)		8264/6225-3	14.8 (20)	
8264/6323-2	14.8 (20)		8264/6325-3	14.8 (20)	
8264/6333-2	14.8 (20)		8264/6335-3	14.8 (20)	
8264/6933-2	23.6 (32)		Cyl. screws M12x30 A4-80 acc. ISO 4762	8264/6935-3	
8264/6993-2	23.6 (32)	8264/6995-3		14.8 (20)	



Dimensional Drawings - subject to alterations

without mounting rails



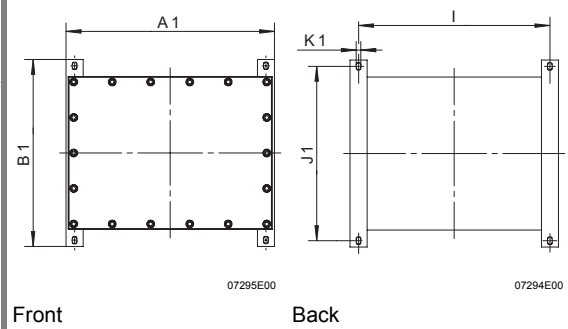
Front

Back

Side (large)

Side (small)

with mounting rails



Front

Back

Side

Enclosure 8264/6





Enclosure Type	External						Mounting Plate		Internal						Mounting				
	A	A1	B	B1	C	C1	D	E	a	b	c*	F	G	H	I	J	J1	K	K1
8264/6114-3	9.25 (235)	11.22 (285)	9.25 (235)	13.86 (352)	10.24 (260)	10.71 (272)	5.98 (152)	5.98 (152)	6.10 (157)	6.10 (157)	8.07 (202)	0.47 (12)	0.47 (12)	0.98 (25)	8.07 (205)	8.07 (205)	11.89 (302)	Standard Thread Size - M12 - 0.98 (25) deep (for optional sizes, please contact factory)	Width of elongated hole = 0.70 (18)
8264/6214-3	14.17 (360)	11.22 (285)	9.25 (235)	13.86 (352)	10.24 (260)	10.71 (272)	10.79 (274)	5.98 (152)	11.02 (282)	6.10 (157)	8.07 (202)	0.47 (12)	0.65 (16.5)	0.98 (25)	12.99 (330)	8.07 (205)	11.89 (302)		
8264/6224-3	14.17 (360)	16.14 (410)	14.17 (360)	18.74 (476)	10.24 (260)	10.71 (272)	10.79 (274)	10.79 (274)	11.02 (282)	11.02 (282)	8.07 (202)	0.65 (16.5)	0.65 (16.5)	0.98 (25)	12.99 (330)	12.99 (330)	16.77 (426)		
8264/6225-3	14.17 (360)	16.14 (410)	14.17 (360)	18.74 (476)	12.99 (330)	13.46 (342)	10.79 (274)	10.79 (274)	11.02 (282)	11.02 (282)	10.83 (272)	0.65 (16.5)	0.65 (16.5)	0.98 (25)	12.99 (330)	12.99 (330)	16.77 (426)		
8264/6325-3	18.90 (480)	16.14 (410)	14.17 (360)	18.74 (476)	12.99 (330)	13.46 (342)	15.51 (394)	10.79 (274)	15.83 (402)	11.02 (282)	10.24 (260)	0.65 (16.5)	0.65 (16.5)	1.01 (25.6)	17.72 (450)	12.99 (330)	16.77 (426)		
8264/6335-3	18.90 (480)	21.26 (540)	18.90 (480)	23.23 (590)	12.99 (330)	13.46 (342)	15.51 (394)	15.51 (394)	15.83 (402)	15.83 (402)	10.24 (258)	0.65 (16.5)	0.65 (16.5)	1.00** (25.4)	17.72 (450)	17.72 (450)	21.50 (546)		
8264/6935-3	28.74 (730)	31.10 (790)	18.90 (480)	23.23 (590)	12.99 (330)	13.46 (342)	24.80 (644)	15.51 (394)	25.59 (652)	15.83 (402)	8.66 (242)	0.65 (16.5)	0.85 (21.5)	1.58 (40.3)	27.56 (700)	17.72 (450)	21.50 (546)		
8264/6995-3	28.74 (730)	31.10 (790)	28.74 (730)	33.31 (846)	12.99 (330)	13.46 (342)	24.80 (630)	24.80 (630)	25.20 (640)	25.20 (640)	9.84 (238)	0.85 (21.5)	0.85 (21.5)	1.58 (40.3)	27.56 (700)	27.56 (700)	31.34 (796)		

* For covers with window: c = c - 0.88 (20) ** For covers with windows: H = 1.59 (40.3) and c = c - 1.38 (35)

Enclosure Type	External						Mounting Plate		Internal						Mounting				
	A	A1	B	B1	C	C1	D	E	a	b	c*	F	G	H	I	J	J1	K	K1
8264/6112-2	9.25 (235)	11.22 (285)	9.25 (235)	13.86 (352)	10.63 (270)	11.10 (282)	5.98 (152)	5.98 (152)	6.10 (155)	6.10 (155)	8.07 (207)	0.47 (12)	0.47 (12)	0.98 (25)	8.07 (205)	8.07 (205)	11.89 (302)	Standard Thread Size - M12 - 0.98 (25) deep (for optional sizes, please contact factory)	Width of elongated hole = 0.70 (18)
8264/6212-2	14.17 (360)	11.22 (285)	9.25 (235)	13.86 (352)	10.63 (270)	11.10 (282)	10.79 (274)	5.98 (152)	11.02 (280)	6.10 (155)	8.07 (207)	0.47 (12)	0.47 (12)	0.98 (25)	12.99 (330)	8.07 (205)	11.89 (302)		
8264/6222-2	14.17 (360)	16.14 (410)	14.17 (360)	18.74 (476)	10.63 (270)	11.10 (282)	10.79 (274)	10.79 (274)	11.02 (280)	11.02 (280)	8.07 (204)	0.47 (12)	0.47 (12)	0.98 (25)	12.99 (330)	12.99 (330)	16.77 (426)		
8264/6223-2	14.17 (360)	16.14 (410)	14.17 (360)	18.74 (476)	13.39 (340)	13.86 (352)	10.79 (274)	10.79 (274)	11.02 (280)	11.02 (280)	10.83 (274)	0.47 (12)	0.47 (12)	0.98 (25)	12.99 (330)	12.99 (330)	16.77 (426)		
8264/6323-2	18.90 (480)	16.14 (410)	14.17 (360)	18.74 (476)	13.39 (340)	13.86 (352)	15.51 (394)	10.79 (274)	15.75 (400)	11.02 (280)	10.83 (274)	0.47 (12)	0.47 (12)	0.98 (25)	17.72 (450)	12.99 (330)	16.77 (426)		
8264/6333-2	18.90 (480)	21.26 (540)	18.90 (480)	23.23 (590)	13.39 (340)	14.57 (370)	15.51 (394)	15.51 (394)	15.75 (400)	15.75 (400)	10.63 (269)	0.47 (12)	0.47 (12)	0.99 (25.2)	17.72 (450)	17.72 (450)	21.50 (546)		
8264/6933-2	28.74 (730)	31.10 (790)	18.90 (480)	23.23 (590)	13.39 (340)	14.57 (370)	24.80 (644)	15.51 (394)	25.59 (650)	15.75 (400)	10.83 (273)	0.47 (12)	0.47 (12)	0.98 (25)	27.56 (700)	17.72 (450)	21.50 (546)		
8264/6993-2	28.74 (730)	31.10 (790)	28.74 (730)	33.31 (846)	13.39 (340)	14.57 (370)	24.80 (630)	24.80 (630)	25.59 (650)	25.59 (650)	10.63 (268)	0.47 (12)	0.47 (12)	0.98 (25)	27.56 (700)	27.56 (700)	31.34 (796)		

* For covers with window: c = c - 0.88 (20)


6 Installation


⚠ WARNING	
	<p>Danger from energised parts!</p> <ul style="list-style-type: none"> ▶ Risk of the most severe injuries occurring. ▶ Be sure that there is no power to the system before maintenance work begins. ▶ Secure the device against unauthorised activation.
⚠ WARNING	
<p>Installation may only be performed by qualified personnel!</p> <ul style="list-style-type: none"> ▶ Installation work may only be performed by authorized personnel suitably trained for this purpose. ▶ Follow all applicable national and local regulations. 	
⚠ WARNING	
	<p>Use of cable glands without cable strain-reliefs!</p> <ul style="list-style-type: none"> ▶ Explosion protection cannot be guaranteed any more if cable glands are installed without cable strain-reliefs in the vicinity of loosely laid cables and leads. ▶ Securely lay cabling and leads. ▶ If installation is to take place in areas with loosely laid cables, only use cable glands that are approved for this application.
⚠ WARNING	
	<p>Danger through damaged joints!</p> <ul style="list-style-type: none"> ▶ If joints are damaged, the explosion protection is not guaranteed. ▶ Handle the cover with extreme care and fit it carefully to the enclosure. ▶ Replace a cover or enclosure with damaged joints immediately!
	<p>The enclosures are furnished with or without drilled and tapped conduit openings. Drilling and tapping of openings is subject to the limitations of maximum size and number of openings as well as spacings and removed area. Refer to section "Drilling and Tapping of Entries". All machining must be done prior to installation.</p>
⚠ WARNING	
<p>Danger from an excessively heavy enclosure cover!</p> <ul style="list-style-type: none"> ▶ When opening, take into consideration that the enclosure cover is very heavy (see chapter "Technical Data"). ▶ Use suitable lifting tool. Attach a suitable hinge as necessary (see catalogue). ▶ Select a mounting location that will provide suitable strength and rigidity for supporting all contained wiring and control devices (Mounting dimensions: see section "Technical Data"). ▶ Securely fasten enclosure to the mounting location, then attach into wiring system. ▶ To open enclosure remove all cover bolts. ▶ Install conduit system with necessary seals. Install next to enclosure wall. ▶ Remove enclosure cover and carefully set it aside to prevent damage to the flameproof joint. ▶ Pull wires into enclosure, making sure they are long enough to make the required connections. Make all electrical connections. 	

- ▶ Attach the cover to the enclosure, and tighten all bolts with the prescribed tightening torques (see section “Technical Data”).
- ▶ Pour sealing compound into sealing fittings (as required) in accordance with the supplied Instructions as well as the NEC and the CEC.

7 Drilling and Tapping of Entries

The minimum center-to-center distance of tapped entries must be in accordance with the tables below.

 WARNING
▶ Additional spacing may be required if conduit fittings are located adjacent to each other.
▶ If reducers are used, the male thread of the reducer counts for spacing based on the thread size of the reducer, not the trade size of the conduit.

 WARNING
▶ Sealing fittings must be installed with access allowing the dams to be made and the sealing compound to be properly poured.
▶ To avoid interference of sealing fittings enlarge center-to-center distance (P) to account for fitting diameter.

7.1 Maximum removed area

Removed area per threaded entry size

The number of entries is limited by the total removed area of the entries. To calculate the total removed area add up all individual entry areas and cross-check with the total removed area allowed in the tables below.

Threaded entry size	Removed area per thread size inch ² (cm ²)
3/8" NPT	0.36 (2.3)
1/2" NPT	0.55 (3.5)
3/4" NPT	0.86 (5.6)
1" NPT	1.35 (8.7)
1-1/4" NPT	2.15 (13.9)
1-1/2" NPT	2.82 (18.2)
2" NPT	4.40 (28.4)
3/4"-14 NPSM	0.86 (5.6)
M16x1.5	0.31 (2.0)
M20x1.5	0.49 (3.1)
M25x1.5	0.76 (4.9)
M32x1.5	1.25 (8.0)
M40x1.5	1.95 (2.6)

Total Removed Area per Enclosure Wall allowed - Type 8264/6...-2 (Stainless Steel)

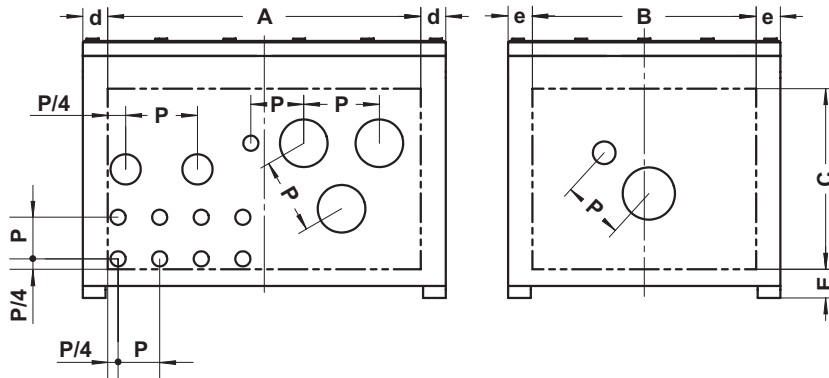
Maximum Removed Area allowed			
Enclosure Type (Stainless Steel)	Enclosure Wall	per Wall Side less than inch ² (cm ²)	in total: all Wall Sides less than inch ² (cm ²)
8264/6112-2	all sides	18.5 (119)	32.5 (210)
8264/6212-2	short side	18.5 (119)	42.1 (272)
	long side	27.7 (179)	42.1 (272)
8264/6222-2	all sides	27.7 (179)	51.7 (334)
8264/6223-2	all sides	41.3 (267)	77.4 (499)
8264/6323-2	short side	41.3 (267)	100.4 (648)
	long side	69.4 (448)	100.4 (648)
8264/6333-2	all sides	69.4 (448)	120.1 (775)
8264/6933-2	short side	69.4 (448)	159.2 (1027)
	long side	110.7 (714)	159.2 (1027)
8264/6993-2	all sides	110.7 (714)	194.9 (1257)

Total Removed Area per Enclosure Wall allowed - Type 8264/6...-3 (Aluminum)

Maximum Removed Area allowed			
Enclosure Type (Aluminum)	Enclosure Wall	per Wall Side less than inch ² (cm ²)	in total: all Wall Sides less than inch ² (cm ²)
8264/6114-3	all sides	18.5 (119)	32.5 (210)
8264/6214-3	short side	18.5 (119)	39.7 (256)
	long side	24.0 (155)	39.7 (256)
8264/6224-3	all sides	24.0 (155)	47.3 (305)
8264/6225-3	all sides	24.0 (155)	47.3 (305)
8264/6325-3	short side	24.0 (155)	52.4 (338)
	long side	34.0 (220)	52.4 (338)
8264/6335-3	all sides	23.3 (150)	42.9 (277)
8264/6935-3	short side	23.3 (150)	64.6 (417)
	long side	49.4 (319)	64.6 (417)
8264/6995-3	all sides	49.4 (319)	86.3 (557)

See Section 7.2 (Stainless Steel Enclosure) and 7.3 (Aluminum Enclosure) for area for entries installation and minimum center to center distance between entries information.

7.2 Area for Entry Installation at the enclosure walls - Type 8264/6...-2 Stainless Steel



07226E00

8264/6...-2 Stainless Steel Enclosure Body - Area of Entry Installation in inch (mm)						
Enclosure Type	Width		Height	Height over mounting	Distance to side wall	
	A	B	C	E	(d)	(e)
8264/6112-2	7.09 (180)	7.09 (180)	6.61 (168)	1.65 (42)	1.08 (27.5)	1.08 (27.5)
8264/6212-2	12.05 (306)	7.09 (180)	6.61 (168)	1.65 (42)	1.06 (27)	1.08 (27.5)
8264/6222-2	12.05 (306)	12.05 (306)	6.50 (165)	1.77 (45)	1.06 (27)	1.06 (27)
8264/6223-2	12.05 (306)	12.05 (306)	9.25 (235)	1.77 (45)	1.06 (27)	1.06 (27)
8264/6323-2	17.32 (440)	12.05 (306)	9.25 (235)	1.77 (45)	0.79 (20)	1.06 (27)
8264/6333-2	16.77 (426)	16.77 (426)	9.06 (230)	1.97 (50)	1.06 (27)	1.06 (27)
8264/6933-2	27.17 (690)	16.77 (426)	9.25 (235)	1.77 (45)	0.79 (20)	1.06 (27)
8264/6993-2	26.61 (676)	26.61 (676)	9.06 (230)	1.97 (50)	1.06 (27)	1.06 (27)

For minimum distance (P) between entries contact factory. For maximum numbers of Entries see table below.

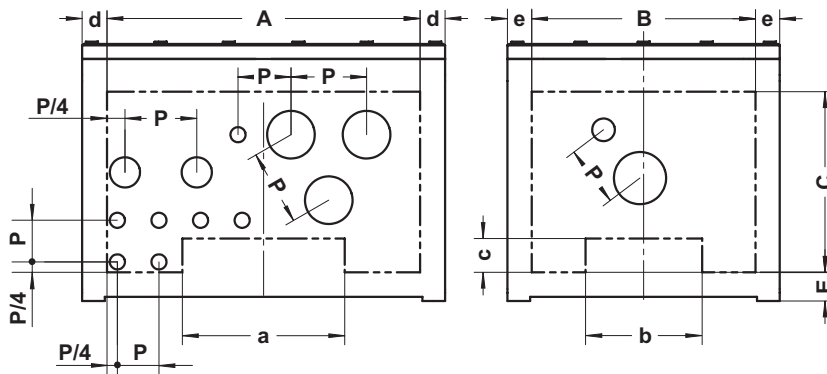
Minimum Center-to-Center-Distance "P" in inch (mm) between Entries for Enclosure Sizes 8264/6112-2, 8264/6212-2, 8264/6213-2 and 8264/6222-2

Metric NPT	M16x1.5 n/a	M20x1.5 1/2"	M25x1.5 3/4"	M32x1.5 1"	M40x1.5 1-1/4"	M50x1.5 1-1/2"	M63x1.5 2"
M16x1.5 n/a	1.65 (42)	--	--	--	--	--	--
M20x1.5 1/2"	1.65 (42)	1.65 (42)	--	--	--	--	--
M25x1.5 3/4"	1.85 (47)	1.85 (47)	2.05 (52)	--	--	--	--
M32x1.5 1"	2.11 (53.5)	2.11 (53.5)	2.30 (58.5)	2.56 (65)	--	--	--
M40x1.5 1-1/4"	2.42 (61.5)	2.42 (61.5)	2.62 (66.5)	2.87 (73)	3.19 (81)	--	--
M50x1.5 1-1/2"	2.80 (71)	2.80 (71)	2.99 (76)	3.25 (82.5)	3.56 (90.5)	3.94 (100)	--
M63x1.5 2"	3.29 (83)	3.29 (83)	3.48 (88.5)	3.74 (95)	4.05 (103)	4.43 (112.5)	4.92 (125)

Minimum Center-to-Center-Distance "P" in inch (mm) between Entries for Enclosure Sizes 8264/6223-2, 8264/6323-2, 8264/6333-2, 8264/6933-2 and 8264/6993-2

Metric NPT	M16x1.5 n/a	M20x1.5 1/2"	M25x1.5 3/4"	M32x1.5 1"	M40x1.5 1-1/4"	M50x1.5 1-1/2"	M63x1.5 2"
M16x1.5 n/a	1.65 (42)	--	--	--	--	--	--
M20x1.5 1/2"	1.65 (42)	1.65 (42)	--	--	--	--	--
M25x1.5 3/4"	1.91 (48.5)	1.91 (48.5)	2.17 (55)	--	--	--	--
M32x1.5 1"	2.28 (58)	2.28 (58)	2.54 (64.5)	2.91 (74)	--	--	--
M40x1.5 1-1/4"	2.70 (68.5)	2.70 (68.5)	2.95 (75)	3.33 (84.5)	3.74 (95)	--	--
M50x1.5 1-1/2"	3.21 (81.5)	3.21 (81.5)	3.46 (88)	3.84 (97.5)	4.25 (108)	4.76 (121)	--
M63x1.5 2"	3.88 (98.5)	3.88 (98.5)	4.13 (105)	4.51 (114.5)	4.92 (125)	5.43 (138)	6.10 (155)

7.3 Area for Entry Installation at the enclosure walls - Type 8264/6...-3 Aluminum



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8264/6...-3 Aluminum Enclosure Body - Area of Entry Installation in inch (mm)									
Enclosure Type	Width		Height	Height over mounting	Section of internal reinforcements			Distance to side wall	
	A	B	C	E	a	b	c	d	e
8264/6114-3	7.48 (190)	7.48 (190)	6.38 (162)	1.34 (34)	--	--	--	0.89 (22.5)	0.89 (22.5)
8264/6214-3	12.44 (316)	7.17 (182)	6.38 (162)	1.34 (34)	--	--	--	0.87 (22)	1.04 (26.5)
8264/6224-3	11.97 (304)	11.97 (304)	6.38 (162)	1.34 (34)	--	--	--	1.10 (28)	1.10 (28)
8264/6225-3	11.34 (288)	11.34 (288)	9.13 (232)	1.34 (34)	--	--	--	1.42 (36)	1.42 (36)
8264/6325-3	16.14 (410)	11.41 (290)	8.27 (210)	1.77 (45)	9.06 (230)	4.72 (120)	1.97 (50)	1.38 (35)	1.38 (35)
8264/6335-3	16.54 (420)	16.54 (420)	6.46 (164)	3.62 (92)	--	--	--	1.18 (30)	1.18 (30)
8264/6935-3	25.59 (650)	15.4 (390)	5.83 (148)	3.62 (92)	--	--	--	1.57 (40)	1.77 (45)
8264/6995-3	25.59 (650)	25.59 (650)	6.22 (158)	3.23 (82)	6.30 (160)	6.30 (160)	2.44 (62)	1.57 (40)	1.57 (40)

Minimum Center-to-Center-Distance "P" in inch (mm) between Entries for Enclosure Sizes 8264/6114-3, 8264/6214-3 and 8264/6224-3

Metric NPT	M16x1.5 n/a	M20x1.5 1/2"	M25x1.5 3/4"	M32x1.5 1"	M40x1.5 1-1/4"	M50x1.5 1-1/2"	M63x1.5 2"
M16x1.5 n/a	1.65 (42)	--	--	--	--	--	--
M20x1.5 1/2"	1.65 (42)	1.65 (42)	--	--	--	--	--
M25x1.5 3/4"	1.85 (47)	1.85 (47)	2.05 (52)	--	--	--	--
M32x1.5 1"	2.11 (53.5)	2.11 (53.5)	2.30 (58.5)	2.56 (65)	--	--	--
M40x1.5 1-1/4"	2.42 (61.5)	2.42 (61.5)	2.62 (66.5)	2.87 (73)	3.19 (81)	--	--
M50x1.5 1-1/2"	2.80 (71)	2.80 (71)	2.99 (76)	3.25 (82.5)	3.56 (90.5)	3.94 (100)	--
M63x1.5 2"	3.29 (83)	3.29 (83)	3.48 (88.5)	3.74 (95)	4.05 (103)	4.43 (112.5)	4.92 (125)

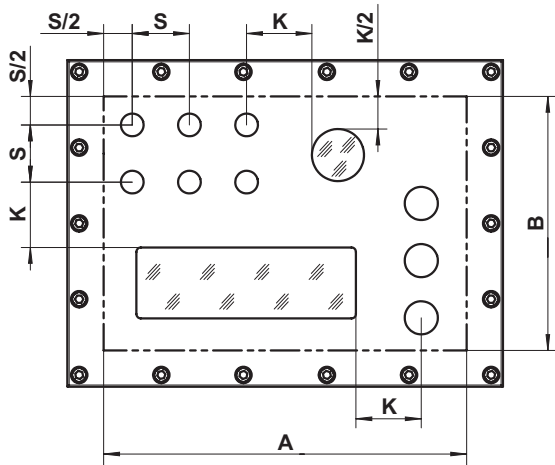
Minimum Center-to-Center-Distance "P" in inch (mm) between Entries for Enclosure Sizes 8264/6225-3, 8264/6325-3, 8264/6335-3, 8264/6935-3 and 8264/6995-3

Metric NPT	M16x1.5 n/a	M20x1.5 1/2"	M25x1.5 3/4"	M32x1.5 1"	M40x1.5 1-1/4"	M50x1.5 1-1/2"	M63x1.5 2"
M16x1.5 n/a	1.65 (42)	--	--	--	--	--	--
M20x1.5 1/2"	1.65 (42)	1.65 (42)	--	--	--	--	--
M25x1.5 3/4"	1.91 (48.5)	1.91 (48.5)	2.17 (55)	--	--	--	--
M32x1.5 1"	2.28 (58)	2.28 (58)	2.54 (64.5)	2.91 (74)	--	--	--
M40x1.5 1-1/4"	2.70 (68.5)	2.70 (68.5)	2.95 (75)	3.33 (84.5)	3.74 (95)	--	--
M50x1.5 1-1/2"	3.21 (81.5)	3.21 (81.5)	3.46 (88)	3.84 (97.5)	4.25 (108)	4.76 (121)	--
M63x1.5 2"	3.88 (98.5)	3.88 (98.5)	4.13 (105)	4.51 (114.5)	4.92 (125)	5.43 (138)	6.10 (155)

**7.4 Area for Operator Installation -
for 8264/6...-2 Stainless Steel and 8264/6...-3 Aluminum Covers**

The minimum center-to-center distance between drilled entries for operators is $S = 63.5 \text{ mm } (2\frac{1}{2}'')$.

The minimum distance between drilled entries for operators and windows or between window and window is $K = 100 \text{ mm } (4'')$.



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8264/6...- Enclosure Covers (Aluminum and Stainless Steel)			
Cover for Enclosure Type	Area for of Entry Installation in inch (mm)		Max. Number of Operators
	Length	Width	
	A	B	3/4"-14 NPSM*
8264/611.-.	5.43 (138)	5.43 (138)	4
8264/621.-.	10.24 (260)	5.43 (138)	8
8264/622.-.	10.24 (260)	10.24 (260)	16
8264/632.-.	14.96 (380)	10.24 (260)	24
8264/633.-.	14.96 (380)	14.96 (380)	36
8264/6933-2	24.80 (630)	14.96 (380)	54
8264/6935-3	24.80 (630)	14.96 (380)	54
8264/6993-2	24.80 (630)	24.80 (630)	81
8264/6995-3	24.80 (630)	24.80 (630)	81

* optional thread sizes M16 x 1.5; M20 x 1.5; M25 x 1.5 can be used

8264/6...- Enclosure Covers (Aluminum and Stainless Steel)									
Cover for Enclosure Type	Maximum Number of windows								
	Round / Viewing Diameter in inch (mm)				Rectangular / Viewing Area				
	2.17 (55)	2.56 (65)	3.54 (90)	5.51 (140)	2.28x5.59 (58x142)	3.86x5.59 (98x142)	5.63x9.21 (143x234)	7.87x11.81 (200x300)	9.21x12.52 (234x318)
8264/611.-.	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8264/621.-.	1	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A
8264/622.-.	1	1	1	1	1	1	N/A	N/A	N/A
8264/632.-.	2	2	2	1	2	1	1	1	N/A
8264/633.-.	4	4	4	1	2	2	1	1	N/A
8264/6933-2*	6	4	2	1	1	1	1	1	1
8264/6935-3**	6	4	2	1	1	1	N/A	N/A	N/A
8264/6993-2*	6	4	2	1	1	1	1	1	1
8264/6995-3**	6	4	2	1	1	1	N/A	N/A	N/A




* Stainless Steel
** Aluminum

8 Grounding and Bonding

The internal grounding terminal shall be used as the primary equipment ground.

The external terminal is only a supplemental bonding connection where local authorities permit or require such a connection.

9 Maintenance

 WARNING	
	<p>Danger from energised parts!</p> <ul style="list-style-type: none"> ▷ Risk of the most severe injuries occurring. ▶ Be sure that there is no power to the system before maintenance work begins. ▶ Secure the device against unauthorised activation.
 WARNING	
<p>Risk due to unauthorised work performed on the device!</p> <ul style="list-style-type: none"> ▷ There is a risk of injury and damage to equipment. ▶ Assembly, installation, commissioning, operating and maintenance work must only be performed by personnel who is both authorized and suitably trained for this purpose. 	

9.1 Regular Maintenance Work

- ▶ Consult the relevant regulations to determine the type and extent of inspections.
- ▶ Plan the intervals so that any defects in the equipment which may be anticipated are promptly detected.

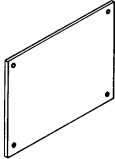
To check as part of the maintenance schedule:

- ✗ Inspect device for visible damage.

9.2 Cleaning

- ✗ Clean with a cloth, brush, vacuum cleaner or similar items.

10 Accessories and Spare Parts

Designation	Illustration	Description	Order number	Weight kg
Mounting plate		for enclosure 8264/611.-.	143319	0,515
		for enclosure 8264/621.-.	143323	0,907
		for enclosure 8264/622.-.	143272	3,000
		for enclosure 8264/632.-.	143284	4,500
		for enclosure 8264/633.-.	143294	6,400
		for enclosure 8264/693.-.	143303	10,400
		for enclosure 8264/699.-.	143311	0,900
Fixing Screw Kit			168412	0,045

 **WARNING**

Use of non-approved accessories and replacement parts!

- ▷ The manufacturer's liability and the rights to make claims under warranty will be invalidated.
- ▶ Only use original accessories and original spare parts manufactured by R. STAHL.