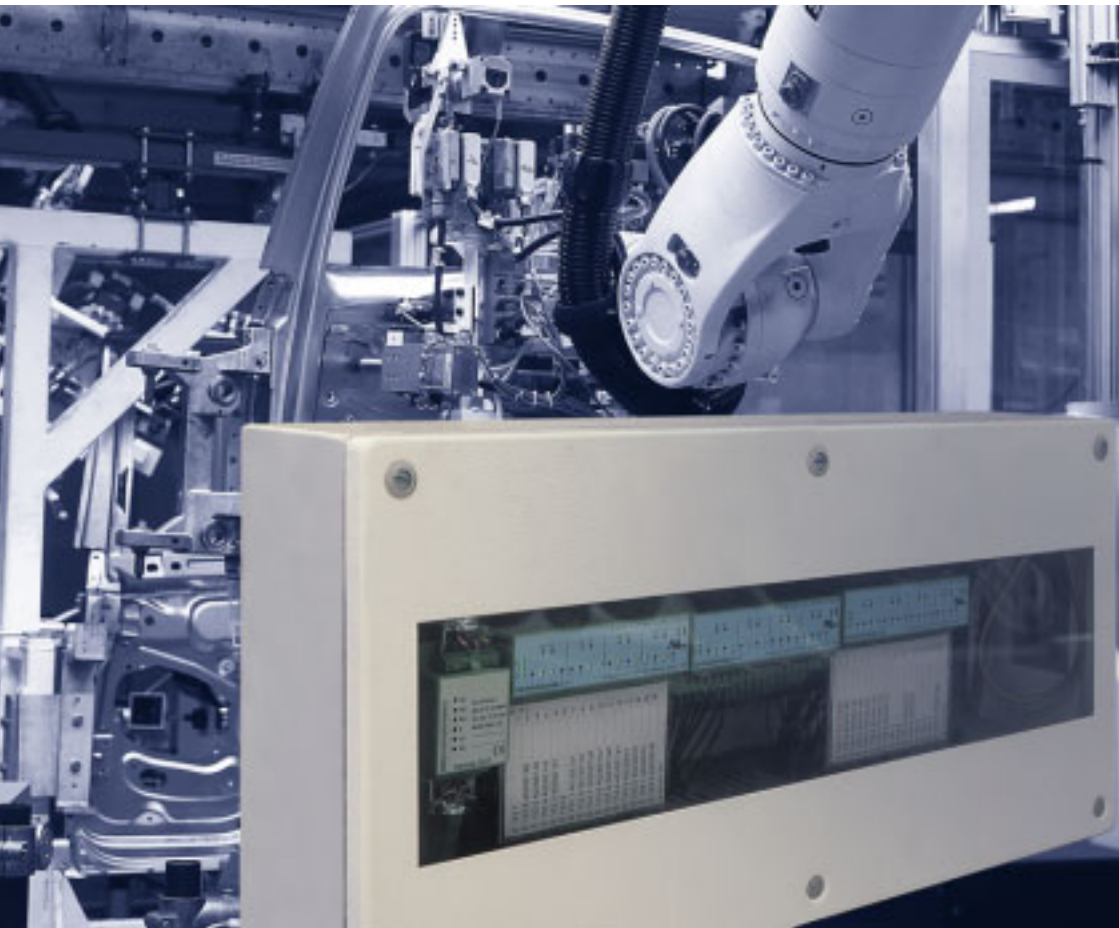


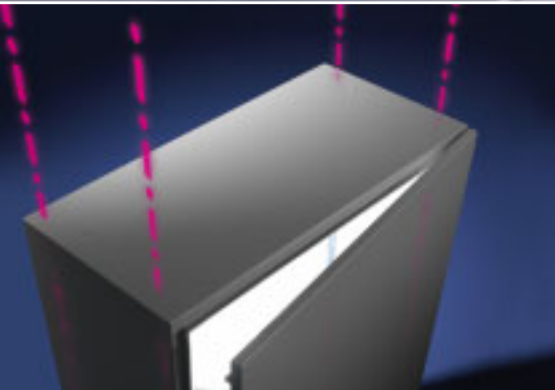


# Rittal – Small Enclosures



Fast and perfect,  
with an exceptionally diverse  
range of system accessories

# The original is still the best!



## Packaging technology for the future

Whether you require enclosures for tough industrial environments or for telecommunications, Rittal has the right solution to suit any application. With our extensive range of accessories, even individual configuration requirements can be met cost-effectively and to optimum effect.

Rittal small enclosures owe their phenomenal success to a host of decisive benefits:

Perfectly coordinated sizes, designs and materials, mass production quality, plus the diversity of matching system accessories. At Rittal, reliable protection against corrosion, fast global availability and international approvals come as standard.

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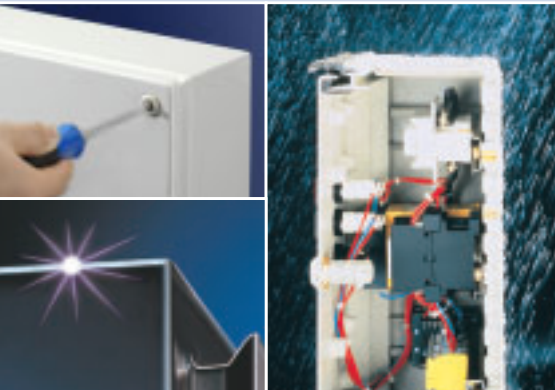
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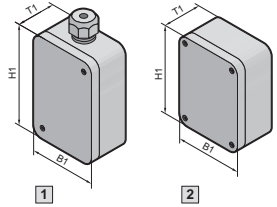
**Smart solutions to the last detail**

The answer is in the detail, and this is where Rittal comes into its own.

- Time-saving quick-release fasteners
- Multi-folded enclosure protection channel to guard against dirt and water
- Twin seals on the doors of the KS range
- Sophisticated attachment and mounting options

All these solutions are designed to save our customers time and money.

# Polycarbonate enclosures PK



**Material:**  
Grey enclosure and cover (version .000) from fibreglass-reinforced polycarbonate, transparent cover (version .100) from polycarbonate, cover screws from polyamide, insulating bungs from polyethylene.

**Colour:**  
RAL 7035

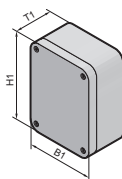
**Protection category:**  
IP 66 to EN 60 529/10.91

**Supply includes:**  
Enclosure and cover, cover screws, insulating bung for wall mounting screws (not with 9530.000 and 9531.000), all-round foamed-in PU seal.

**Approvals:**  
● Bureau Veritas

<b>Width (B1) in mm</b>	50	50	65	65	94	94	94	94
<b>Height (H1) in mm</b>	52	65	65	65	65	65	94	94
<b>Depth (T1) in mm</b>	35	35	57	81	57	81	57	81
<b>1 Model No. PK with cable gland</b>	<b>9530.000</b>	<b>9531.000</b>	–	–	–	–	–	–
<b>2 Model No. PK with grey cover</b>	–	–	<b>9500.000</b>	<b>9501.000</b>	<b>9502.000</b>	<b>9503.000</b>	<b>9504.000</b>	<b>9505.000</b>
<b>Model No. PK with transparent cover</b>	–	–	–	–	–	–	<b>9504.100</b>	–
Packs of	10	10	12	12	8	8	6	6

<b>Width (B1) in mm</b>	110	110	130	130	130	130	180	180
<b>Height (H1) in mm</b>	110	110	94	94	130	130	94	94
<b>Depth (T1) in mm</b>	66	90	57	81	75	99	57	81
<b>2 Model No. PK with grey cover</b>	<b>9506.000</b>	<b>9507.000</b>	<b>9508.000</b>	<b>9509.000</b>	<b>9510.000</b>	<b>9511.000</b>	<b>9512.000</b>	<b>9513.000</b>
<b>Model No. PK with transparent cover</b>	<b>9506.100</b>	<b>9507.100</b>	<b>9508.100</b>	<b>9509.100</b>	<b>9510.100</b>	<b>9511.100</b>	<b>9512.100</b>	<b>9513.100</b>
Packs of	6	6	4	4	4	4	2	2



**Material:**

Grey enclosure and cover (version .000) from fibreglass-reinforced polycarbonate, transparent cover (version .100) from polycarbonate, cover screws from polyamide, insulating bungs from polyethylene.

**Colour:**

RAL 7035

**Protection category:**

IP 66 to EN 60 529/10.91

**Supply includes:**

Enclosure and cover, cover screws, insulating bungs for wall mounting screws, all-round foamed-in PU seal.

**Approvals:**

- Bureau Veritas

<b>Width (B1) in mm</b>	180	180	180	182	182	182
<b>Height (H1) in mm</b>	110	110	110	180	180	180
<b>Depth (T1) in mm</b>	90	111	165	90	111	165
<b>Model No. PK with grey cover</b>	<b>9514.000</b>	<b>9515.000</b>	<b>9516.000</b>	<b>9517.000</b>	<b>9518.000</b>	<b>9519.000</b>
<b>Model No. PK with transparent cover</b>	<b>9514.100</b>	<b>9515.100</b>	<b>9516.100</b>	<b>9517.100</b>	<b>9518.100</b>	<b>9519.100</b>
Packs of	2	2	2	1	1	1

<b>Width (B1) in mm</b>	254	254	254	360	360
<b>Height (H1) in mm</b>	180	180	180	254	254
<b>Depth (T1) in mm</b>	90	111	165	111	165
<b>Model No. PK with grey cover</b>	<b>9520.000</b>	<b>9521.000</b>	<b>9522.000</b>	<b>9523.000</b>	<b>9524.000</b>
<b>Model No. PK with transparent cover</b>	<b>9520.100</b>	<b>9521.100</b>	<b>9522.100</b>	<b>9523.100</b>	<b>9524.100</b>
Packs of	1	1	1	1	1



**Turn-lock fastener**

A quick, convenient screw fastening aid is obtained by clipping into the head of the lid screw.

**Material:**

Polyamide

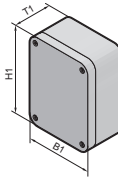
	Packs of	Model No. PK
For all enclosures	100	<b>9582.000</b>

**Supply includes:**

1 pack

# Polycarbonate enclosures PK

## With metric knockouts



### Material:

Grey enclosure and lid of fibreglass-reinforced polycarbonate, lid screws of polyamide, insulating bung of polythene.

### Colour:

RAL 7035

### Protection category:

IP 66 to EN 60 529

### Supply includes:

Enclosure and lid, cover screws, insulating bungs for wall mounting screws, all-round foamed-in PU seal.

### Approvals:

● Bureau Veritas

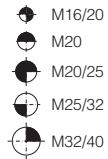
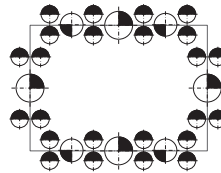
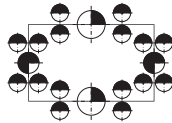
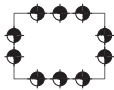
<b>Width (B1) in mm</b>	65	130	180	254
<b>Height (H1) in mm</b>	65	94	110	180
<b>Depth (T1) in mm</b>	57	57	90	111
<b>Model No. PK</b>	<b>9500.050</b>	<b>9508.050</b>	<b>9514.050</b>	<b>9521.050</b>
Packs of	12	4	2	1

PK 9500.050

PK 9508.050

PK 9514.050

PK 9521.050





### Mounting plate

For individual configuration of the enclosure interior, the mounting plate offers a stable, secure and flexible design option.

#### Design:

Melamine phenol-coated laminated paper, 2.5 mm thick.

#### Colour:

RAL 7035

#### Supply includes:

Self-tapping assembly screws.

To fit	Width mm	Height mm	Packs of	Model No. PK
PK 9500.000 / PK 9501.000	45	45	12	<b>9540.000<sup>1)</sup></b>
PK 9502.000 / PK 9503.000	74	45	12	<b>9541.000<sup>1)</sup></b>
PK 9504.000 / PK 9505.000	74	74	12	<b>9542.000<sup>1)</sup></b>
PK 9506.000 / PK 9507.000	90	90	12	<b>9543.000<sup>1)</sup></b>
PK 9508.000 / PK 9509.000	110	74	12	<b>9544.000<sup>1)</sup></b>
PK 9510.000 / PK 9511.000	110	110	10	<b>9545.000</b>
PK 9512.000 / PK 9513.000	160	74	10	<b>9546.000</b>
PK 9514.000 / PK 9515.000 PK 9516.000	150	90	10	<b>9547.000</b>
PK 9517.000 / PK 9518.000 PK 9519.000	150	150	10	<b>9548.000</b>
PK 9520.000 / PK 9521.000 PK 9522.000	220	150	8	<b>9549.000</b>
PK 9523.000 / PK 9524.000	331	220	4	<b>9550.000</b>

<sup>1)</sup> with spacers



### Mounting plate

for polycarbonate enclosures

- PK 9530.000
- PK 9531.000

Via a 3-way depth-adjustable assembly component, the mounting plate may also be used as an inner cover for installed equipment.

For enclosure	Packs of	Model No. PK
9530.000	10	<b>9551.000</b>
9531.000	10	<b>9552.000</b>

#### Material:

Polycarbonate

#### Supply includes:

Assembly parts.



### Hinges

For hinged attachment of lids. The supplied drilling template ensures problem-free assembly.

#### Supply includes:

1 set =  
2 hinges,  
4 assembly screws,  
3 polyethylene sealing bungs,  
1 drilling template.

For enclosure	Material	Packs of	Model No. PK
PK 9500.000 – PK 9513.000	Polycarbonate	10 sets	<b>9580.000</b>
PK 9514.000 – PK 9524.000	Polystyrene	10 sets	<b>9581.000</b>



### External mounting bracket

To fit enclosure  
● PK 9530.000  
● PK 9531.000  
With moulded lug for cable tie.

#### Material:

Polyamide

Packs of	Model No. PK
10	<b>9553.000</b>

#### Supply includes:

Assembly parts.

# Polycarbonate enclosures PK

## Accessories



### Wall mounting brackets

The enclosure can be screwed to the wall using four wall mounting brackets. The bracket is securely attached to the enclosure by means of pins.

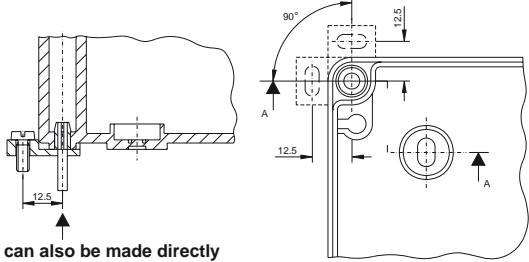
**Material:**  
Polyamide, grey

	Packs of	Model No. PK
For all enclosures	40	<b>9583.000</b>

**Supply includes:**  
1 pack

The assembly screw is located in the wall mounting bracket, making it accessible at all times.

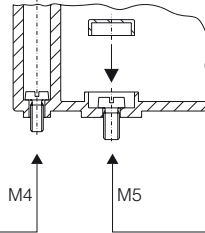
The wall mounting bracket may be fitted to the side or top.



**Wall attachment can also be made directly without the bracket:**

#### Variant 1

Wall attachment in the cover screw channel is a simple, secure means of attachment.



#### Variant 2

By knocking out the hole in the enclosure base, mounting in the enclosure interior is also possible.

The screws must be concealed using the sealing bungs supplied with the enclosure. The spacing between the attachment holes is marked on the rear panel of the enclosure.



### Support rail

The two support rail sections provide good flexibility for accommodating terminal blocks and installed components.

#### Design:

The support rails are designed in accordance with EN 50 045 (TS 15/5.5) or EN 50 022 (TS 35/7.5); the surface finish is zinc-plated.

#### Supply includes:

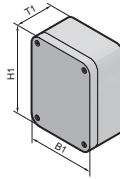
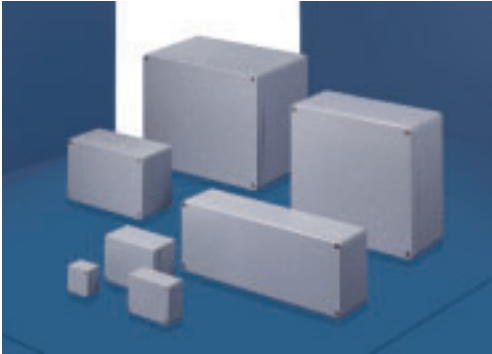
Two self-tapping assembly screws.



Rail	Maximum number of terminals with the following terminal sizes			Bar length mm	Packs of	Model No. PK
	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	10 mm <sup>2</sup>			
TS 15/5.5	5	5	4	49.5	12	<b>9560.000</b>
	11	11	8	80	12	<b>9561.000</b>
	14	14	10	92	12	<b>9562.000</b>
	18	18	13	111	12	<b>9563.000</b>
TS 35/7.5	12	9	5	81	12	<b>9564.000</b>
	17	13	8	106	12	<b>9565.000</b>
	24	20	11	144	12	<b>9566.000</b>
	38	32	19	216	12	<b>9567.000</b>
	61	50	30	336	12	<b>9568.000</b>

Calculation of the maximum number of terminals is based on two end holders and a cover.





**Material:**

Enclosure and lid made from cast aluminium, lid with neoprene cord seal.

**Surface finish:**

Smooth spray finish similar to RAL 7001

**Protection category:**

IP 67 to EN 60.529 / 10.91, complies with NEMA 4.

**Supply includes:**

2 or 4 cover screws, captive mounted,  
2 or 4 screws for the attachment of support rails, mounting plates etc.,  
1 screw for connection of the PE conductor.



**Rittal service:**

Individual standard solutions for enclosures and covers

- Hole drilling
- Thread tapping
- Milling
- Screen printing
- Engraving
- Choice of RAL colours and other surface finishes available on request.

<b>Width (B1) in mm</b>	50	58	98	150	75	125	175	250	122
<b>Height (H1) in mm</b>	45	64	64	64	80	80	80	80	120
<b>Depth (T1) in mm</b>	30	36	36	36	57	57	57	57	80
<b>Model No. GA</b>	<b>9100.210</b>	<b>9101.210</b>	<b>9102.210</b>	<b>9103.210</b>	<b>9104.210</b>	<b>9105.210</b>	<b>9106.210</b>	<b>9107.210</b>	<b>9108.210</b>
Packs of	6	5	3	2	1	1	1	1	1

<b>Width (B1) in mm</b>	220	360	160	260	360	200	280	330	330
<b>Height (H1) in mm</b>	120	122	160	160	160	230	230	230	230
<b>Depth (T1) in mm</b>	90	80	90	90	90	110	110	110	180
<b>Model No. GA</b>	<b>9110.210</b>	<b>9111.210</b>	<b>9112.210</b>	<b>9113.210</b>	<b>9114.210</b>	<b>9116.210</b>	<b>9117.210</b>	<b>9118.210</b>	<b>9119.210</b>
Packs of	1	1	1	1	1	1	1	1	1

# Cast aluminium enclosures GA

## Accessories



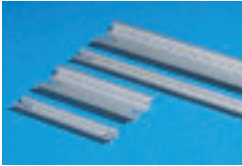
### Mounting plate

for universal interior installation.

#### Material:

Sheet steel, zinc-plated, passivated, with attachment holes.

Exterior dimensions (mm)		For enclosure	Packs of	Model No. GA
Width	Height			
114	69	GA 9105.210	10	<b>9105.700</b>
164	69	GA 9106.210	10	<b>9106.700</b>
239	69	GA 9107.210	5	<b>9107.700</b>
109	107	GA 9108.210	2	<b>9108.700</b>
207	107	GA 9110.210	2	<b>9110.700</b>
347	107	GA 9111.210	2	<b>9111.700</b>
144	142	GA 9112.210	2	<b>9112.700</b>
245	142	GA 9113.210	2	<b>9113.700</b>
346	142	GA 9114.210	1	<b>9114.700</b>
183	214	GA 9116.210	1	<b>9116.700</b>
264	214	GA 9117.210	1	<b>9117.700</b>
314	214	GA 9118.210 GA 9119.210	1	<b>9118.700</b>



### Support rail

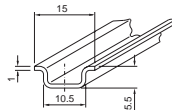
To accommodate terminal blocks or other installed equipment.

#### Material:

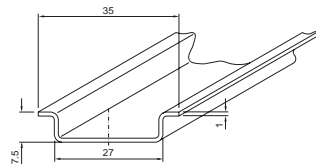
Sheet steel, zinc-plated, passivated, with attachment holes.

Rail	Maximum number of terminals with the following terminal sizes			Rail length available for population mm	For enclosure width mm	Packs of	Model No. GA
	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	10 mm <sup>2</sup>				
TS 15/5.5 to EN 50 045	15	15	12	95	125	10	<b>9105.150</b>
	27	22	19	145	175	10	<b>9106.150</b>
	42	35	29	220	250	10	<b>9107.150</b>
TS 35/7.5 to EN 50 022	12	12	9	80	122	5	<b>9108.350</b>
	18	18	14	115	160	5	<b>9112.350</b>
	25	25	18	155	200	5	<b>9116.350</b>
	29	29	21	180	220	5	<b>9110.350</b>
	34	34	26	215	260	5	<b>9113.350</b>
	37	37	28	230	280	5	<b>9117.350</b>
	46	46	35	290	330	5	<b>9118.350</b>
51	51	39	320	360	5	<b>9111.350</b>	

TS 15/5.5



TS 35/7.5





### Wall mounting bracket

For external mounting to surfaces – no need to dismantle the lid if pre-assembled.

**Material:**

Sheet steel, zinc-plated, passivated

For enclosures	Packs of	Model No. GA
GA 9108.210 GA 9110.210 GA 9111.210	2	<b>9121.122</b>
GA 9112.210 GA 9113.210 GA 9114.210	2	<b>9121.160</b>
GA 9116.210 GA 9117.210 GA 9118.210 GA 9119.210	2	<b>9121.230</b>



### Hinge, exterior

For fastening the lid to the enclosure base, complete with drilling template.

**Material:**

Die-cast aluminium

**Colour:**

RAL 7001



For enclosures	Packs of	Model No. GA
GA 9105.210 GA 9106.210 GA 9107.210	2 + 8 screws	<b>9123.100</b>
GA 9108.210 GA 9110.210 GA 9111.210 GA 9112.210 GA 9113.210 GA 9114.210 GA 9116.210 GA 9117.210 GA 9118.210 GA 9119.210	2 + 8 screws	<b>9123.000</b>



### Cover screws, prepared for lead seal

to protect against unauthorised opening. Two per cover are required.

**Material:**

Stainless steel

For enclosures	Packs of	Model No. GA
GA 9104.210 GA 9105.210 GA 9106.210 GA 9107.210	6	<b>9122.424</b>



# A very special “twist”!



New and practical: The lid may be opened or reliably sealed in a flash, with the new quick-action screw. A 1/4 rotation instead of x number of tapped threads additionally ensures optimum contact pressure for the seal.

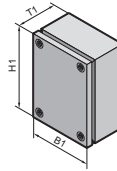
This improvement will be added to the following products

- Terminal boxes KL, page 13, KL stainless steel, page 15
  - Bus enclosures BG, based on KL, page 22, BG stainless steel, page 26
- for even greater time and cost savings during assembly and servicing.



# Terminal boxes KL

Without gland plate, depth: 80/120



### Material:

Enclosure:  
Sheet steel 1.25 mm;  
1.38 mm for KL 1507.510 to  
KL 1513.510  
Cover:  
Sheet steel 1.25 mm

### Surface finish:

Case and cover:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035

### Protection category:

IP 66 to EN 60 529/10.91,  
complies with NEMA 4.

### Supply includes:

Enclosure, cover with all-  
round foamed-in PU seal  
and quick-action screws,  
including plastic bushes.

### Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register  
of Shipping
- Lloyds Register  
of Shipping
- Bureau Veritas
- VDE

### Depth 80 mm

Width (B1) in mm	P. of	150	200	200	300	300	400	600
Height (H1) in mm		150	150	200	150	200	200	200
Depth (T1) in mm		80	80	80	80	80	80	80
Model No. KL	1	<b>1514.510</b>	<b>1528.510</b>	<b>1516.510</b>	<b>1515.510</b>	<b>1517.510</b>	<b>1518.510</b>	<b>1519.510</b>
Weight (kg)		1.4	1.6	1.9	2.1	2.6	3.2	4.6

### Depth 120 mm

Width (B1) in mm	P. of	150	200	200	300	300	400	400	400	
Height (H1) in mm		150	150	200	150	200	300	150	200	
Depth (T1) in mm		120	120	120	120	120	120	120	120	
Model No. KL	1	<b>1500.510</b>	<b>1529.510</b>	<b>1502.510</b>	<b>1501.510</b>	<b>1503.510</b>	<b>1507.510</b>	<b>1589.510</b>	<b>1504.510</b>	<b>1508.510</b>
Weight (kg)		1.6	1.8	2.3	2.6	3.0	4.0	3.2	3.6	4.8

Width (B1) in mm	P. of	400	500	500	600	600	600	800	800
Height (H1) in mm		400	200	300	200	300	400	200	400
Depth (T1) in mm		120	120	120	120	120	120	120	120
Model No. KL	1	<b>1511.510</b>	<b>1505.510</b>	<b>1509.510</b>	<b>1506.510</b>	<b>1510.510</b>	<b>1512.510</b>	<b>1527.510</b>	<b>1513.510</b>
Weight (kg)		6.2	4.4	5.8	5.7	6.8	8.4	6.8	11.0

To order terminal boxes in textured RAL 7032 please add extension .210 to the Model No., and for primed terminal boxes use extension .310. Delivery times available on request.



### Cover retainer

The cover retainer is easily fitted without drilling, and allows the covers to be opened upwards, even when the terminal box below is bayed.



### Cover hinge

The cover hinge is simply screwed to the box protection channel and to the edge fold.

**German patent  
no. P 33 40 491**

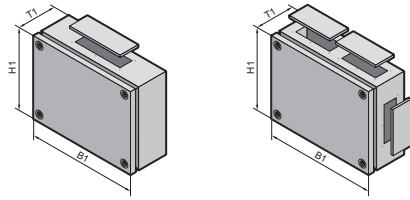
Packs of	<b>Model No. KL</b>
3 pairs	<b>1591.000</b>

Packs of	<b>Model No. KL</b>
6	<b>1592.000</b>

**General accessories** from page 40

# Terminal boxes KL

## With gland plate, depth 120



### Material:

Enclosure:  
Sheet steel 1.38 mm;  
1.25 mm for KL 1530.510 to  
KL 1534.510 and  
KL 1542.510  
Cover:  
Sheet steel 1.25 mm

### Surface finish:

Case and cover:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035

### Protection category:

IP 55 to EN 60 529/10.91,  
complies with NEMA 12.

### Supply includes:

Enclosures with gland  
apertures, cover with  
foamed-in special seal and  
quick-action screws  
including plastic bushes,  
sheet steel gland plates with  
seals and assembly parts.

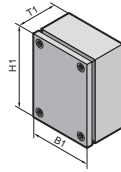
### Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register  
of Shipping
- Lloyds Register  
of Shipping
- Bureau Veritas
- VDE

Width (B1) in mm	Packs of	300	300	300	400	400	400
Height (H1) in mm		150	200	300	200	300	400
Depth (T1) in mm		120	120	120	120	120	120
<b>Model No. KL</b>	<b>1</b>	<b>1530.510</b>	<b>1531.510</b>	<b>1535.510</b>	<b>1532.510</b>	<b>1536.510</b>	<b>1539.510</b>
Weight (kg)		2.7	3.3	4.5	4.0	5.2	6.7
Gland plate (top + bottom)		1 + 1	1 + 1	1 + 1	1 + 1	1 + 1	1 + 1
Gland plate (left + right)		–	–	1 + 1	–	1 + 1	1 + 1

Width (B1) in mm	Packs of	500	500	600	600	600	800	800
Height (H1) in mm		200	300	200	300	400	200	400
Depth (T1) in mm		120	120	120	120	120	120	120
<b>Model No. KL</b>	<b>1</b>	<b>1533.510</b>	<b>1537.510</b>	<b>1534.510</b>	<b>1538.510</b>	<b>1540.510</b>	<b>1542.510</b>	<b>1541.510</b>
Weight (kg)		4.9	5.2	5.9	7.7	9.0	7.2	12.0
Gland plate (top + bottom)		2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	3 + 3	3 + 3
Gland plate (left + right)		–	1 + 1	–	1 + 1	1 + 1	–	1 + 1

To order terminal boxes in textured RAL 7032 please add extension .210 to the Model No., and for primed terminal boxes use extension .310. Delivery times available on request.



**Material:**

Stainless steel 1.4301 (AISI 304)  
Enclosure: 1.25 mm  
Cover: 1.25 mm

**Surface finish:**

Case and cover:  
Brushed, grain 180

**Protection category:**

IP 66 to EN 60 529/10.91, complies with NEMA 4X

**Supply includes:**

Enclosure, cover with all-round foamed-in PU seal and quick-action screws, including plastic bushes.

**Approvals:**

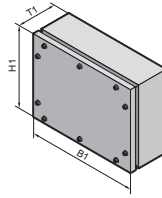
- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE

<b>Width (B1) in mm</b>	Packs of	150	300	200	300	400	300
<b>Height (H1) in mm</b>		150	150	200	200	200	300
<b>Depth (T1) in mm</b>		80	80	80	80	120	120
<b>Model No. KL</b>	1	<b>1521.010</b>	<b>1522.010</b>	<b>1523.010</b>	<b>1524.010</b>	<b>1525.010</b>	<b>1526.010</b>
Weight (kg)		1.3	1.8	1.8	2.4	3.6	3.9
Quick-action screws		4	4	4	4	4	4

**To order terminal boxes in 1.4404 (AISI 316L), please add extension .510 to the Model No. Delivery times available on request.**

# Premium Line KL

## Protection category IP 69K, stainless steel



### A new design, a new concept for the seal and lock

- **Resistant to high-pressure cleaning** (protection category IP 69K). The seal lies between two seals and is ideally compressed by the screw fastening.
- **Suitable for clean room use.**  
Optional screw fastening to comply with high standards in the food and hygiene sectors:  
  - 1 external with hex screws
  - 2 internal with plastic stoppers

- **Optimum EMC conditions.**  
The labyrinthine seal achieves a particularly high level of RF shielding of the enclosure.
- **Accessibility.**  
Internal rear panel bracket. This solution is clearly superior to external hinges from a hygiene point of view.
- Wall mounting can be implemented directly from the rear using M8 pull-in nuts, or from the front using wall mounting brackets.

**Material:**  
Stainless steel 1.4301 (AISI 304), 1.5 mm

**Surface finish:**  
Brushed, grain 240

**Protection category:**  
IP 69K to  
DIN 40 050-9/5.93



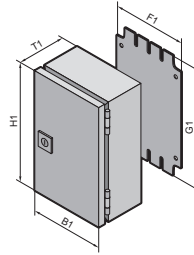
### Rittal service:

Other sizes and other enclosures with this sealing concept are available on request.  
Cut-outs and drilled holes to your specifications.

<b>Width (B1) in mm</b>	Packs of	150	150	300	400
<b>Height (H1) in mm</b>		150	150	200	300
<b>Depth (T1) in mm</b>		80	120	120	120
<b>Model No. KL</b>	1	<b>1024.010</b>	<b>1024.020</b>	<b>1024.030</b>	<b>1024.040</b>
Quick-action screws		4	4	6	10

To order Premium Line KL in 1.4404 (AISI 316L), please add extension .5X0 to the Model No.  
Delivery times available on request.





**Material:**

Sheet steel  
Enclosure: 1.25 mm  
1.38 mm for  
EB 1555.500,  
EB 1556.500,  
EB 1577.500 to  
EB 1579.500

**Surface finish:**

Enclosure and door:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035  
Mounting plate: Zinc-plated

**Protection category:**

IP 66 to EN 60 529/10.91

**Supply includes:**

Enclosure with mounting  
plate,  
door including 180° hinges  
and cam lock with double-bit  
insert.

**Approvals:**

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register  
of Shipping
- Lloyds Register  
of Shipping
- Bureau Veritas
- VDE

**Depth 80 mm**

<b>Width (B1) in mm</b>	P. of	150	150	200	200	200	300	300
<b>Height (H1) in mm</b>		150	300	200	300	400	300	400
<b>Depth (T1) in mm</b>		80	80	80	80	80	80	80
Mtg. plate width (F1) mm		125	125	175	175	175	175	175
Mtg. plate height (G1) mm		135	285	185	285	385	285	385
<b>Model No. EB</b>	1	<b>1551.500</b>	<b>1545.500</b>	<b>1546.500</b>	<b>1552.500</b>	<b>1547.500</b>		
Weight (kg)		1.7	2.6	2.4	3.2	4.4		

**Depth 120 mm**

<b>Width (B1) in mm</b>	P. of	150	150	200	200	200	300	300	200
<b>Height (H1) in mm</b>		150	300	200	300	400	300	400	500
<b>Depth (T1) in mm</b>		120	120	120	120	120	120	120	120
Mtg. plate width (F1) mm		125	125	175	175	175	275	275	175
Mtg. plate height (G1) mm		135	285	185	285	385	285	385	485
<b>Model No. EB</b>	1	<b>1553.500</b>	<b>1548.500</b>	<b>1549.500</b>	<b>1554.500</b>	<b>1550.500</b>	<b>1555.500</b>	<b>1556.500</b>	<b>1557.500</b>
Weight (kg)		2.0	3.0	2.8	3.6	5.0	5.0	6.4	6.2

**Depth 155 mm**

<b>Width (B1) in mm</b>	P. of	300	300	300
<b>Height (H1) in mm</b>		400	600	800
<b>Depth (T1) in mm</b>		155	155	155
Mtg. plate width (F1) mm		275	275	275
Mtg. plate height (G1) mm		385	585	785
<b>Model No. EB</b>	1	<b>1577.500</b>	<b>1578.500</b>	<b>1579.500</b>
Weight (kg)		7.1	11.0	13.2

**Lock systems**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 47, lock cylinder inserts, plastic handles and T handles, type B, see page 47/48.

**To order terminal boxes in textured RAL 7032 please add extension .600 to the Model No., and for primed terminal boxes use extension .310. Delivery times available on request.**

**General accessories** from page 40

## Enclosures



### Empty enclosure for industrial distributor

W x H x D: 600 x 760 x 210 mm

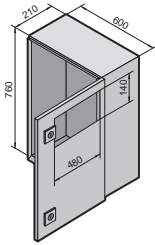
Offers space for Ethernet connection of 24 subscribers with patch panel.

**Material:**  
Sheet steel

**Surface finish:**  
Enclosure and door:  
Dipcoat primed, powder-coated in textured RAL 7035 on the outside,  
Mounting plate: Zinc-plated

**Protection category:**  
IP 56/54 to EN 60 529  
(depending on the gland plate fitted).

**Supply includes:**  
Enclosure, one-door, without gland plate in the enclosure base, r/h door hinge, with 2 cam locks, polycarbonate viewing panel, foamed-in door seal, mounting plate.



Packs of	Model No. IN
1	1076.290 <sup>1)</sup>

<sup>1)</sup> Stainless steel and plastic versions available on request.

#### + Accessories:

Metal gland plate	Packs of	Model No. IN	Page
Solid	1	2563.150	20
Pre-punched	1	2203.010	20
With cable glands	1	2203.020	20
With grommets	1	2203.030	20

#### 🔧 Rittal service:

Mounting of components available from Rittal.

Cut-outs e. g. for interface flaps, see page 69 and signal pillars, see Catalogue 31, page 1041.



### Empty enclosure for industrial distributor

W x H x D: 600 x 300 x 125 mm

Provides space for Ethernet connection of

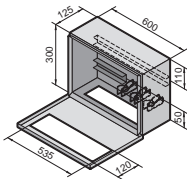
- up to 24 users without patch panel
- up to 12 users with patch panel.

**Material:**  
Sheet steel

**Surface finish:**  
Case and cover:  
Dipcoat primed, powder-coated in textured RAL 7035 on the outside

**Protection category:**  
IP 65 to EN 60 529  
(with fitted gland plate)

**Supply includes:**  
Enclosure, without gland plate in the enclosure base, lid hinged at the bottom, opening angle of lid limited to 90° by a retaining cord, 3 quick-release fasteners for screwdrivers, polycarbonate viewing panel, foamed-in lid seal, 2 fitted support rails TS 35/7,5 (590 and 150 mm long), 3 fitted cable shunting rings DK 7112.000.



Packs of	Model No. IN
1	1510.280

#### + Accessories:

Metal gland plate	Packs of	Model No. IN	Page
Solid	1	2207.010	20
Pre-punched	1	2207.020	20
With cable glands	1	2207.030	20

#### 🔧 Rittal service:

Mounting of components available from Rittal.

Cut-outs e. g. for interface flaps, see page 69 and signal pillars, see Catalogue 31, page 1041.



### Junction box IP 67

#### Plastic

Junction box with PROFINET-compatible RJ 45 connector. For use in areas with more demanding requirements in terms of protection category, such as

- Industrial plant
- Warehouses and assembly halls
- Laboratories and workshops

#### Design:

- Robust enclosure for surface-mounting
- 2 RJ 45 jacks for cable AWG 22 – 24 (solid/flexible), Category 6 to ISO/IEC 11801:2002 and EN 50 173-1
- Cable infeed from above or below via cable glands
- Integral cable manager for secure cable routing
- Insulation stripping aid
- Protective flaps, captive, self-closing
- Option for adding a lead seal
- Watertight label panel.



Packs of	Model No. IN
1	<b>2203.500</b>

#### Dimensions:

W x H x D: 90 x 152 x 69 mm

#### Material:

Polycarbonate, impact-resistant, halogen-free, UL 94-V0

#### Colour:

RAL 9011

#### Protection category:

IP 67 to EN 60 529

#### Supply includes:

Enclosure with cable manager, 2 RJ 45 jacks, 2 cable glands, 1 sealing bung, assembly instructions.



### Junction box IP 65

#### Cast aluminium

Robust junction box for use in areas with more demanding requirements in terms of protection category and impact resistance. The RJ 45 connector is recommended by the IAONA.

#### Design:

- Robust enclosure for surface-mounting
- 2 side slots RJ 45 (right) Category 5 to ISO/IEC 11801:2002 and EN 50 173-1
- Connection via LSA connection strips on PCB
- Cable infeed via two M20 cable glands, capacity 5 – 13 mm.

Packs of	Model No. IN
1	<b>2203.600</b>

#### Dimensions:

W x H x D: 80 x 125 x 57 mm (enclosure only)

#### Material:

Cast aluminium

#### Colour:

RAL 7035

#### Protection category:

IP 65 EN 60 529

#### Supply includes:

Enclosure with PCB and integral RJ 45 jacks, 2 cable glands M20, 1 sealing bung.

## Accessories



### Metal gland plates solid/prepunched/ with cable glands

**Design:**

- Solid
- With 27 pre-punchings for cable glands M20 x 1.5.  
Simply knock out the holes using a screwdriver.

- With 27 polyamide cable glands M20 x 1.5.

**Material:**

Sheet steel

**Colour:**

Textured RAL 7035

**Protection category:**

IP 66 to EN 60 529

when mounting in the usual position, bottom.



For IN	Design	Packs of	Model No. IN
1076.290	Solid	1	<b>2563.150</b>
534 x 149 mm	Pre-punched	1	<b>2203.010</b>
	With cable glands	1	<b>2203.020</b>

For IN	Design	Packs of	Model No. IN
1510.280	Solid	1	<b>2207.010</b>
555 x 92 mm	Pre-punched	1	<b>2207.020</b>
	With cable glands	1	<b>2207.030</b>



**Accessories:**

Sealing bungs for sealing any cable glands that are not required, see page 66.  
Cable glands M20 x 1.5, see page 65.



**Rittal service:**

Cutouts for other interfaces.



### Metal gland plate with grommets

**Design:**

Including 4 inserts each with 8 grommets for cable diameters up to 13 mm.

**Material:**

Gland plate: Sheet steel, zinc-plated, passivated

Cable entry grommet:

Body: Polypropylene.

Cover: Thermoplastic elastomer.

**Protection category:**

IP 54 to EN 60 529

when mounting in the usual position, bottom.

For IN	Packs of	Model No. IN
1076.290 534 x 149 mm	1	<b>2203.030</b>



### Patch panels

With slots, prepared for cable clamping with cable ties SZ 2597.000.

#### Design:

Suitable for direct attachment on mounting plates and, by using mounting clip SZ 2309.000, also on support rails.

#### Material:

Sheet steel, zinc-plated, passivated

#### Supply includes:

Assembly parts.



#### Accessories:

Mounting clip SZ 2309.000  
see page 53.  
Cable tie SZ 2597.000  
see page 68.



Manufacturer	Usable modules	Packs of	Model No. IN		
			1 slot	2 slots	8 slots
ADC KRONE	RJ 45 KM8 STP	1	–	<b>2203.260</b>	<b>2203.270</b>
BTR	RJ 45 E-DAT module 8 (8) Cat. 6	1	–	<b>2203.200</b>	<b>2203.210</b>
Corning Cable Systems	RJ 45 FutureCom™ S250 module	1	–	<b>2203.220</b>	<b>2203.230</b>
Dätwyler	RJ 45 unilan® module MS 1/8 Cat. 6	1	–	<b>2203.200</b>	<b>2203.210</b>
Reichle & De-Massari (R&M)	RJ 45 connection module Cat. 5e and Cat. 6, fibre-optic couplings SC-RJ and E2000™ Compact (via module recess)	1	<b>2203.110</b>	<b>2203.120</b>	<b>2203.160</b>
Tyco Electronics Corporation (AMP NETCONNECT)	RJ45 SL series (Toolless Jacks, 110Connect Jacks, AMP-TWIST-6S Jacks)	1	–	<b>2203.240</b>	<b>2203.250</b>

FutureCom is a brand name of Corning Cable Systems Brands, Inc.

unilan is a registered trademark of Dätwyler Kabel+Systeme.

AMP NETCONNECT and AMP-TWIST are brand names of Tyco Electronics Corporation.



### Fibre-optic splicing cassette support

To accommodate up to 4 splicing cassettes to DIN 47 662.

The cassettes may be removed individually, to avoid damaging intact connections during maintenance work.

May be installed in two positions on the mounting plate or on punched sections, to ensure space-saving integration.

There is plenty of space for buffered fibres. Strain relief of buffered fibres and cable pigtails may be provided from above and below using cable ties.

	Packs of	Model No. IN
Holder and support for 1 splicing cassette (maximum configuration: 4 supports)	1	<b>2203.300</b>
Support for 1 splicing cassette (extension)	1	<b>2203.310</b>

#### Dimensions:

W x H x D: 104 x 250 x 165 mm

#### Material:

Sheet steel, zinc-plated, passivated

#### Supply includes:

Assembly parts.



### Nylon loop

Ensures orderly cable routing.

Supplied on a reel for cutting to the required length.

Unlike cable ties,

- protects the cable sheathing
- easily reopened
- reusable

Length mm	Width mm	Packs of	Model No. IN
5000	16	1	<b>2203.400</b>

# Bus enclosures BG



## Bus enclosure

### Material:

Sheet steel  
Enclosure: 1.38 mm  
Door: 1.5 mm  
Viewing window made from polycarbonate, 4 mm

### Surface finish:

Enclosure and door:  
Powder coated in textured RAL 7035

### Protection category:

IP 65 to EN 60 529/10.91

### Supply includes:

Door hinged on the left,  
1 cam lock with double-bit insert,  
2 (1) support rail(s) TS 35/7.5  
(for BG 1586.510).  
Drilled holes for cable glands in the base.

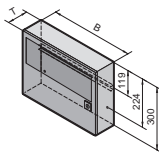
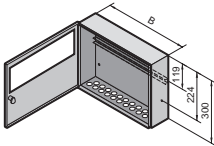
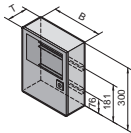
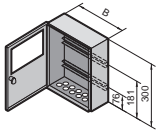
### Approvals:

- TÜV
- Lloyd's Register of Shipping
- VDE
- UL
- C-UL



### Accessories:

Cable glands made from polyamide or brass, see page 65.



Dimensions mm				PG version					Metric version			
				Number of PG holes					Model No. BG	Number of metric holes		
W (B)	H	D (T)	9	11	13.5	16	21	M12		M20	M25	
200	300	80	1	8	–	1	1	<b>1583.510</b>	2	5	2	<b>1583.520</b>
300	300	80	1	14	–	1	1	<b>1584.510</b>	2	9	2	<b>1584.520</b>
400	300	80	1	18	–	1	2	<b>1585.510</b>	2	13	3	<b>1585.520</b>
500	300	80	3	–	24	–	–	<b>1586.510</b>	3	24	–	<b>1586.520</b>

### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 47 and plastic handles, type B, see page 47.

**To order enclosures in RAL 7032, please add the extension .210 or .220 to the Model No. Delivery times available on request.**



## Bus enclosure

### Material:

Sheet steel  
Enclosure: 1.38 mm  
Door: 1.5 mm  
Viewing window made from polycarbonate, 4 mm

### Surface finish:

Enclosure and door:  
Powder coated in textured RAL 7035

### Protection category:

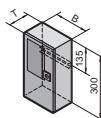
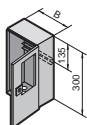
IP 65 to EN 60 529/10.91

### Supply includes:

Door with r/h hinge,  
1 cam lock with double-bit insert,  
1 support rail TS 35 /7.5,  
Drilled holes for cable glands in the base.

### Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



Dimensions mm			PG version				Model No. BG	Metric version				Model No. BG
			Number of PG holes					Number of metric holes				
W (B)	H	D (T)	9	13.5	29	36	M12	M20	M32	M50		
200	300	120	2	-	5	-	1605.510	2	-	5	-	1605.520
400	300	120	-	2	9	1	1606.510	-	2	9	1	1606.520

### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 47 and plastic handles, type B, see page 47.

**To order enclosures in RAL 7032, please add the extension .210 or .220 to the Model No. Delivery times available on request.**



## Bus enclosure

### Material:

Sheet steel  
Enclosure: 1.38 mm  
Door: 1.5 mm  
Viewing window made from polycarbonate, 4 mm

### Surface finish:

Enclosure and door:  
Dipcoat primed, powder coated  
Textured RAL 7035

### Protection category:

IP 65 to EN 60 529/10.91

Dimensions mm			Model No. BG
W (B)	H	D (T)	
400	200	125	1558.510
600	200	125	1559.510

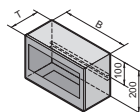
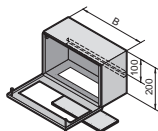
**To order enclosures in RAL 7032, please add the extension .210 to the Model No. Delivery times available on request.**

### Supply includes:

Door with bottom hinge,  
2 (3) quick-release fasteners for screwdrivers (with BG 1559.510),  
1 support rail TS 35 /7.5,  
1 gland plate at bottom.  
Holes for cable glands in the gland plate or directly in the enclosure available on request.

### Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



# Bus enclosures BG



## Bus enclosure

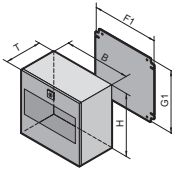
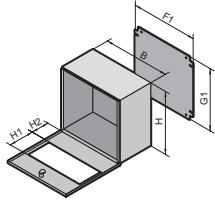
**Material:**  
 Sheet steel  
 Enclosure: 1.38 mm  
 Door: 1.5 mm  
 Polycarbonate viewing window  
 Zinc-plated mounting plate

**Surface finish:**  
 Enclosure and door:  
 Powder coated in textured RAL 7035

**Supply includes:**  
 Door with bottom hinge,  
 cam lock with double-bit insert  
 may be exchanged for lock inserts,  
 type A, page 47 and plastic handles, type B,  
 page 47.

**Approvals:**

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



B = Width  
 T = Depth

Dimensions mm					Cam lock	Model No. EB
Enclosures			Mounting plate			
B	H	T	F1	G1		
400	300	155	385	275	1	<b>1577.500</b>
600	300	155	585	275	2	<b>1578.500</b>
800	300	155	785	275	2	<b>1579.500</b>

**To order enclosures in RAL 7032, please add the extension .600 to the Model No. Delivery times available on request.**

## Bus enclosure modifications

Viewing window and gland plates, see table.

Height of viewing window mm		Gland plate cut-out <sup>2)</sup> at bottom (clearance width) mm	Model No. BG	
H1	H2		Basic	Extension
		327 x 97	<b>1577.</b>	
		527 x 97	<b>1578.</b>	
		2 off 327 x 97	<b>1579.</b>	
115	92	–		<b>.520<sup>1)</sup></b>
190	42	–		<b>.530<sup>1)</sup></b>
115	92	■		<b>.550<sup>1)</sup></b>
190	42	■		<b>.560<sup>1)</sup></b>
155	92	–		<b>.450<sup>1)</sup></b>

<sup>1)</sup> Extended delivery times.

<sup>2)</sup> Gland plates 14 mm larger all-round.



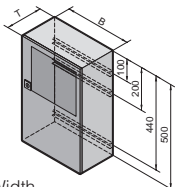
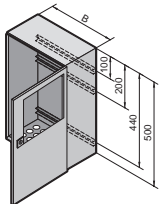
## Bus enclosure

**Material:**  
 Sheet steel  
 Enclosure: 1.38 mm  
 Door: 1.5 mm  
 Viewing window made from polycarbonate,  
 4 mm

**Surface finish:**  
 Enclosure and door:  
 Powder coated in textured RAL 7035

**Approvals:**

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



B = Width  
 T = Depth

Dimensions mm			Number of holes for PG 13.5 or M20	Model No. BG
B	H	T		
400	500	160	33	<b>1611.510</b>

**To order enclosures in RAL 7032, please add the extension .210 to the Model No. Delivery times available on request.**

## Supply includes:

Door with r/h hinge,  
 1 cam lock with 3 mm double-bit insert, may  
 be exchanged for type A lock inserts,  
 page 47 and type B plastic handles,  
 page 47.  
 3 support rails TS 35 /7.5.  
 Drilled holes for cable glands in the base.





## Bus enclosure

### Material:

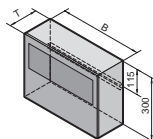
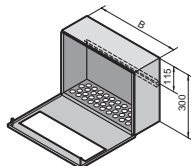
Sheet steel  
 Enclosure: 1.38 mm  
 Door: 1.5 mm  
 Viewing window made from polycarbonate, 4 mm

### Surface finish:

Enclosure and door:  
 Powder coated in textured RAL 7035

### Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



B = Width  
 T = Depth

Dimensions mm			Number of holes for PG 13.5 or M20	Model No. BG
B	H	T		
500	300	120	48	<b>1609.510</b>

**To order enclosures in RAL 7032, please add the extension .210 to the Model No. Delivery times available on request.**

### Supply includes:

Door with bottom hinge,  
 2 quick-release fasteners for screwdrivers,  
 1 support rail TS 35 / 7.5.  
 Drilled holes for cable glands in the base.



## Bus enclosure for modular cable entry

### Material:

Sheet steel  
 Enclosure: 1.38 mm  
 Door: 1.5 mm  
 Viewing window made from polycarbonate, 4 mm

### Surface finish:

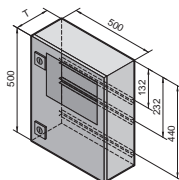
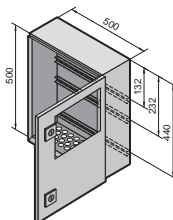
Enclosure and door:  
 Powder coated in textured RAL 7035

### Protection category:

IP 55 to EN 60 529/10.91  
 (in conjunction with module plates)

### Approvals:

- TÜV
- Lloyds Register of Shipping
- VDE
- UL
- C-UL



Width mm	Height mm	Depth mm	Model No. BG
500	500	210	<b>1050.900</b>

### Supply includes:

18 cut-outs in the base for module plates,  
 Pre-configured top-hat rail for bus systems (I/O modules, motor starters) and terminal blocks.  
 Door with viewing panel for visual monitoring of the installed components.



### Also required:

Module plates,  
 see page 64.

# Bus enclosures BG

## Stainless steel



### Bus enclosure Stainless steel

#### Material:

Stainless steel 1.4301 (AISI 304)  
Enclosure: 1.25 mm  
Cover: 1.25 mm  
Hinges: Die-cast zinc

#### Surface finish:

Case and cover:  
Brushed, grain 180  
Hinges: plated

#### Protection category:

IP 66 to EN 60 529/10.91,  
complies with NEMA 4X

#### Supply includes:

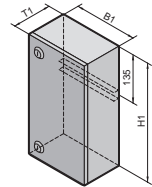
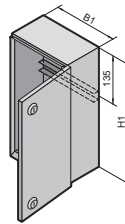
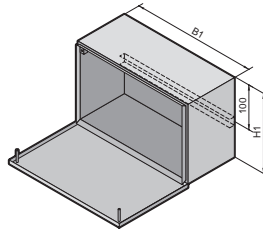
Enclosure with 1 support rail TS 35/7.5,  
cover with foamed in seal,  
180° hinges with quick-release fasteners.

Width (B1) in mm	Packs of	200	300	400	400	600
Height (H1) in mm		300	300	300	200	200
Depth (T1) in mm		80	80	80	123	123
<b>Model No. BG</b>	<b>1</b>	<b>1583.010<sup>1)</sup></b>	<b>1584.010<sup>1)</sup></b>	<b>1585.010<sup>1)</sup></b>	<b>1558.010<sup>2)</sup></b>	<b>1559.010<sup>2)</sup></b>
Weight (kg)		2.8	3.7	4.5	4.5	6.0

**To order bus enclosures in 1.4404 (AISI 316L), please add extension .500 to the Model No. Delivery times available on request.**

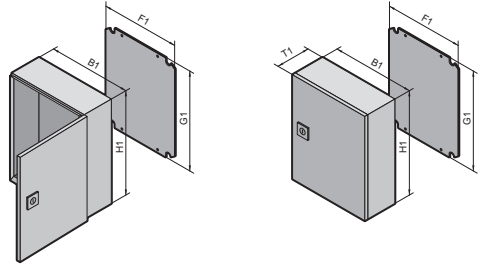
<sup>1)</sup> Support rail attached to studs

<sup>2)</sup> Support rail adjustable on profile strip



# Compact enclosures AE

Width: 200 – 600, height: 300 – 400



## Material:

Sheet steel

## Surface finish:

Enclosure and door:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035  
Mounting plate: Zinc-plated

## Protection category:

IP 66 to EN 60 529/10.91  
Complies with NEMA 12.  
(AE 1032.500, AE 1035.500)  
Complies with NEMA 4.  
(AE 1030.500, AE 1031.500,  
AE 1380.500, AE 1039.500  
AE 1339.500)

## Supply includes:

Enclosure of all-round solid  
construction, single door,  
1 gland plate in the  
enclosure base, r/h door  
hinge, may be swapped to  
opposite side (except with  
AE 1032.500 and  
AE 1035.600), with one cam  
lock, foamed-in door seal,  
mounting plate.

## Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register  
of Shipping
- Lloyds Register  
of Shipping
- Bureau Veritas
- VDE

Width (B1) in mm	Packs of	200	200	300	300	380	380	380	600	600
Height (H1) in mm		300	300	300	400	300	300	380	380	380
Depth (T1) in mm		120	155	210	210	155	210	210	210	350
Mounting plate width (F1) mm		162	162	254	254	334	334	334	549	549
Mounting plate height (G1) mm		275	275	275	375	275	275	355	355	355
Mtg. plate thickness mm		2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5
<b>Model No. AE</b>	1	<b>1032.500</b>	<b>1035.500</b>	<b>1033.500</b>	<b>1034.500</b>	<b>1030.500</b>	<b>1031.500</b>	<b>1380.500</b>	<b>1039.500</b>	<b>1339.500</b>
Weight (kg)		4.0	4.5	7.0	8.8	7.4	7.5	9.8	15.4	20.0

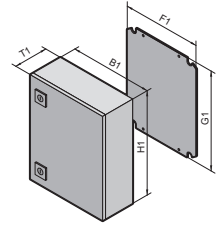
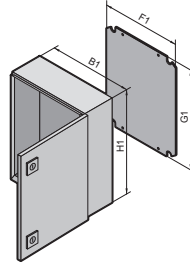
## Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A,  
see page 47, lock cylinder, plastic handles and T handles, type B, see page 47.

**To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800. Delivery times available on request.**

# Compact enclosures AE

Width: 380 – 800, height: 500 – 1000



### Material:

Sheet steel

### Surface finish:

Enclosure and door:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035  
Mounting plate: Zinc-plated

### Protection category:

to EN 60 529/10.91:  
IP 56,  
IP 66 for AE 1038.500,  
AE 1338.500, AE 1045.500,  
AE 1050.500, AE 1350.500,  
AE 1060.500, AE 1360.500,  
complies with NEMA 4.

### Supply includes:

Enclosure of all-round solid  
construction, single door,  
1 gland plate in the  
enclosure base,  
r/h door hinge, may be  
swapped to opposite side,  
with 2 cam locks, foamed-in  
door seal, zinc-plated  
mounting plate.

### Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register  
of Shipping
- Lloyds Register  
of Shipping
- Bureau Veritas
- VDE

Width (B1) in mm	Packs of	380	380	400	500	500	500	600	600
Height (H1) in mm		600	600	500	500	500	700	600	600
Depth (T1) in mm		210	350	210	210	300	250	210	350
Mounting plate width (F1) mm		334	334	354	449	449	449	549	549
Mounting plate height (G1) mm		570	570	475	470	470	670	570	570
Mounting plate thickness mm		2.5	2.5	2.0	2.5	2.5	3.0	2.5	2.5
<b>Model No. AE</b>	<b>1</b>	<b>1038.500</b>	<b>1338.500</b>	<b>1045.500</b>	<b>1050.500</b>	<b>1350.500</b>	<b>1057.500</b>	<b>1060.500</b>	<b>1360.500</b>
Weight (kg)		15.6	19.4	13.0	16.8	19.6	31.2	22.8	28.4

Width (B1) in mm	Packs of	600	600	600	600	760	760	800
Height (H1) in mm		760	760	800	1000	760	760	1000
Depth (T1) in mm		210	350	250	250	210	300	300
Mounting plate width (F1) mm		549	549	549	539	704	704	739
Mounting plate height (G1) mm		730	730	770	955	730	730	955
Mounting plate thickness mm		3.0	3.0	3.0	3.0	3.0	3.0	3.0
<b>Model No. AE</b>	<b>1</b>	<b>1076.500</b>	<b>1376.500</b>	<b>1058.500</b>	<b>1090.500</b>	<b>1077.500</b>	<b>1073.500</b>	<b>1180.500</b>
Weight (kg)		32.1	36.0	34.2	50.5	40.0	44.5	57.0

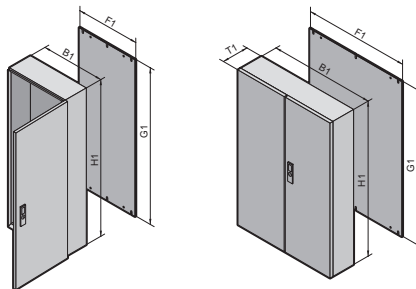
### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 47, lock cylinder, plastic handles and T handles, type B, see page 47/48.

**To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800. Delivery times available on request.**

# Compact enclosures AE

Width: 600 – 1000, height: 760 – 1400



## Material:

Sheet steel  
Enclosure: 1.5 mm  
Door: 2.0 mm  
Mounting plate: 3.0 mm

## Surface finish:

Enclosure and door:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035  
Mounting plate: Zinc-plated

## Protection category:

IP 55 to EN 60 529/10.91  
Complies with NEMA 12.  
IP 56 to EN 60 529/10.91  
for AE 1260.500 and  
AE 1280.500.

## Supply includes:

Enclosure of all-round solid  
construction, single door:  
1 gland plate, twin-door:  
2 gland plates in the  
enclosure base,  
3-point lock system,  
prepared for use of the  
Ergoform-S lock system,  
2 cam locks for 1100.500,  
1130.500, 1110.500,  
foamed-in door seal, zinc-  
plated mounting plate.

## Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register  
of Shipping
- Lloyds Register  
of Shipping
- Bureau Veritas
- VDE



**Possible  
alternative:**

Compact System Enclosures  
Rittal CM, see page 34.

Width (B1) in mm	Packs of	600	800	1000	1000	1000	1000	1000
Height (H1) in mm		1200	1200	760	760	1000	1200	1400
Depth (T1) in mm		300	300	210	300	300	300	300
Mounting plate width (F1) mm		540	740	944	944	939	940	940
Mounting plate height (G1) mm		1155	1155	730	730	955	1155	1355
<b>Model No. AE</b>	<b>1</b>	<b>1260.500</b>	<b>1280.500</b>	<b>1100.500</b>	<b>1130.500</b>	<b>1110.500</b>	<b>1213.500</b>	<b>1114.500</b>
Door(s)		1	1	2	2	2	2	2
Weight (kg)		55.0	70.0	52.0	56.0	71.0	85.0	97.0

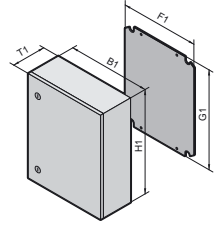
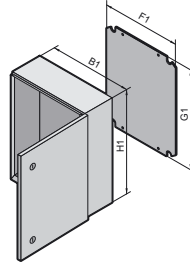
## Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A,  
see page 47 and Ergoform-S lock system (not for 1100.500, 1130.500, 1110.500), see page 46.

**To order enclosures in textured RAL 7032 please add extension .600 to the Model No., and for primed enclosures use extension .800. Delivery times available on request.**

# Compact enclosures AE

## Protection category IP 69K



### Perfect protection in a tough environment

The compact enclosure AE in IP 69K is the ideal solution when a high protection category and corrosion resistance are needed.

- Resistant to high-pressure cleaning (protection category IP 69K). The interior seal is protected against direct hosed water.
- Ideal for mounting on vehicles: Lock, hinges and mounting plate are all vibration resistant.
- The enclosure and door have an aluminium zinc coating for a high level of corrosion protection.

- Foamed-in silicone seal, water-impermeable, with high resistance to temperature and chemicals.
- Prepared to accommodate the door stay 1101.800 and the interior door.
- Wall mounting

### Material:

Sheet steel

### Surface finish:

Enclosure and door: Aluminium zinc coating, powder coated in textured RAL 7035  
Mounting plate: Zinc-plated

### Protection category:

IP 69K to  
DIN 40 050-9/5.93

### Supply includes:

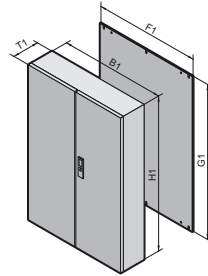
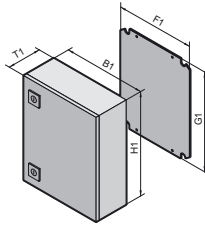
Enclosure of all-round solid construction, single-door, door hinge may be swapped to opposite side by rotating the enclosure, cam lock with double-bit insert, other inserts available on request.



### Rittal service:

Other dimensions available on request. Cut-outs and drilled holes to your specifications.

Width (B1) in mm	Packs of	230	400	400	650
Height (H1) in mm		330	400	650	650
Depth (T1) in mm		155	250	250	250
Mounting plate width (F1) mm		162	334	334	549
Mounting plate height (G1) mm		275	355	570	570
Mounting plate thickness mm		2	2	2.5	2.5
<b>Model No. AE</b>	<b>1</b>	<b>1101.010</b>	<b>1101.020</b>	<b>1101.030</b>	<b>1101.040</b>
Weight (kg)		6.6	13.8	20	29.6
Locks		1	2	2	2



### Material:

Stainless steel 1.4301 (AISI 304)

Enclosure and door: Stainless steel

Mounting plate: Sheet steel  
Cam lock: Die-cast zinc, nickel-plated

### Surface finish:

Enclosure and door: Brushed, grain 240  
Mounting plate: Zinc-plated

### Protection category:

IP 66 to EN 60 529/10.91 for AE 1002.600 – AE 1017.600, complies with NEMA 4X.  
IP 55 to EN 60 529/10.91 for AE 1018.600, AE 1019.600, complies with NEMA 12.

### Supply includes:

Enclosure, door(s) with foamed-in PU seal, mounting plate.

### Approvals:

- UL
- CSA
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE

Width (B1) in mm	Packs of	200	380	300	380	500	500	380
Height (H1) in mm		300	300	380	380	500	500	600
Depth (T1) in mm		155	155	210	210	210	300	210
Mounting plate width (F1) mm		162	334	334	334	449	449	334
Mounting plate height (G1) mm		275	275	275	355	470	470	570
<b>Model No. AE</b>	<b>1</b>	<b>1002.600</b>	<b>1004.600</b>	<b>1005.600</b>	<b>1006.600</b>	<b>1007.600</b>	<b>1013.600</b>	<b>1008.600</b>
Door(s)		1	1	1	1	1	1	1
Weight (kg)		4.5	8.8	8.7	12.0	18.4	18.9	17.0

Width (B1) in mm	Packs of	600	600	600	760	800	800	1000	1000
Height (H1) in mm		380	600	760	760	1000	1200	1000	1200
Depth (T1) in mm		210	210	210	300	300	300	300	300
Mounting plate width (F1) mm		549	549	549	704	739	–	939	–
Mounting plate height (G1) mm		355	570	730	730	955	–	955	–
<b>Model No. AE</b>	<b>1</b>	<b>1009.600</b>	<b>1010.600</b>	<b>1012.600</b>	<b>1014.600</b>	<b>1016.600</b>	<b>1017.600</b>	<b>1018.600</b>	<b>1019.600</b>
Door(s)		1	1	1	1	1	1	2	2
Weight (kg)		17.0	25.0	31.7	42.5	52.9	70.0	71.0	85.0

### Lock systems

Standard double-bit lock insert may be exchanged in enclosures with cam (except AE 1018.600/AE 1019.600) for lock inserts 41 mm, lock cylinder insert, plastic handles, T-handles, type C, see Cat. 31, page 886 – 889.

With AE 1018.600, may only be exchanged for lock inserts 41 mm, see Cat. 31, page 888.

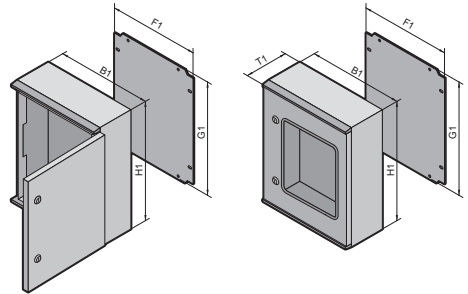
For enclosures with locking rod, may be exchanged for 27 mm lock inserts, type A, see page 47 and Ergoform-S lock system, see page 46.

**To order enclosures in stainless steel 1.4404 (AISI 316L), please add extension .500 to the Model No.**

**Delivery times available on request.**

# Plastic enclosures KS

Width: 200 – 500, height: 300 – 600



## Material:

Enclosure and door: Fibreglass-reinforced unsaturated polyester  
Mounting plate: Sheet steel  
For KS with viewing window: Impact resistant glazed acrylic, 3.0 mm with all-round rubber cable clamp strip

## Surface finish:

Enclosure and door: No after-treatment, dyed plastic, similar to RAL 7032  
Mounting plate: Zinc-plated

## Protection category:

KS without viewing window: IP 66 to EN 60 529/10.91  
Complies with NEMA 4X  
KS with viewing window: IP 56 to EN 60 529/10.91  
Complies with NEMA 12

## Supply includes:

Enclosure of solid all-round construction, r/h door hinge, door hinge may be swapped to opposite side by rotating the enclosure, mounting plate, all-round foamed-in PU seal in the door, twin seal on the top and bottom edges of the door (integral rain protection strip), press-fitted C sections at the sides for infinitely variable mounting plate depth adjustment.

## Note:

Under the influence of long-term UV radiation (sunlight) in conjunction with wind and rain, the surface finish may become visually impaired. In other words, the fibreglass portions become visible on unprotected surfaces. This does not impair the protection of the installed electrical components in any way. All other surface finishes are likewise impaired by ultraviolet radiation. If the enclosures cannot be protected from radiation, e.g. via a sun canopy, we recommend that they should be painted with a PUR paint. Older enclosures where the surface finish already reveals visible fibreglass portions can likewise be treated in this way after thorough cleaning.

Of course, all enclosures can also be supplied spray-finished in RAL colours. For outdoor siting, we recommend pale shades.

## Permissible ambient temperature:

-30°C to +75°C.

## Approvals:

- UL (without viewing window)
- CSA (without viewing window)
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE

	Packs of	Without viewing window						With viewing window		
<b>Width (B1) in mm</b>		200	250	300	400	400	500	400	400	500
<b>Height (H1) in mm</b>		300	350	400	400	600	500	400	600	500
<b>Depth (T1) in mm</b>		150	150	200	200	200	300	200	200	300
Mtg. plate width (F1) mm		145	195	245	345	345	417	345	345	417
Mtg. plate height (G1) mm		250	300	350	350	550	450	350	550	450
Mtg. plate thickness mm		2.0	2.0	2.0	2.5	2.5	2.5	2.5	2.5	2.5
<b>Model No. KS</b>	<b>1</b>	<b>1423.600</b>	<b>1432.600</b>	<b>1434.600</b>	<b>1444.600</b>	<b>1446.600</b>	<b>1453.600</b>	<b>1448.600</b>	<b>1449.600</b>	<b>1454.600</b>
Door(s)		1	1	1	1	1	1	1	1	1
Weight (kg)		3.0	4.1	6.0	7.9	11.5	12.9	8.0	11.5	13.4

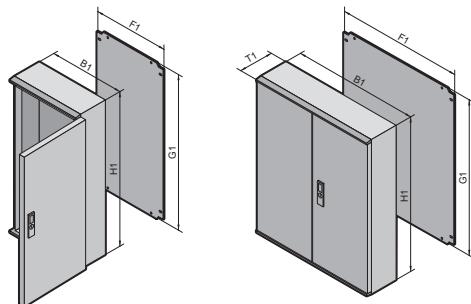
## Lock systems

Standard double-bit lock insert may be exchanged for lock inserts, type E, see Cat. 31, page 888, and plastic handle, type E, KS 1484.000, see Cat. 31, page 886.



# Plastic enclosures KS

Width: 600 – 1000, height: 600 – 1000



## Material:

Enclosure and door: Fibreglass-reinforced unsaturated polyester  
Mounting plate: Sheet steel  
For KS with viewing window: Impact resistant glazed acrylic, 3.0 mm with all-round rubber cable clamp strip

## Surface finish:

Enclosure and door: No after-treatment, dyed plastic, similar to RAL 7032  
Mounting plate: Zinc-plated

## Protection category:

KS 1466.600, KS 1468.600:  
IP 66 to EN 60 529  
Complies with NEMA 4X  
KS single-door without viewing window:  
IP 56 to EN 60 529  
Complies with NEMA 4X  
KS twin-door and KS with viewing window:  
IP 56 to EN 60 529  
Complies with NEMA 12

## Supply includes:

Enclosure of solid all-round construction, r/h door hinge, may be swapped to opposite side by rotating the enclosure (only with single-door models), mounting plate, all-round foamed-in PU seal in the door, twin seal on the top and bottom edges of the door (integral rain protection strip), press-fitted C sections at the sides for infinitely variable mounting plate depth adjustment. KS 1400.600 additionally with removable centre bar in the enclosure.

## Note:

Under the influence of long-term UV radiation (sunlight) in conjunction with wind and rain, the surface finish may become visually impaired. In other words, the fibreglass portions become visible on unprotected surfaces. This does not impair the protection of the installed electrical components in any way. All other surface finishes are likewise impaired by ultraviolet radiation. If the enclosures cannot be protected from radiation, e.g. via a sun canopy, we recommend that they should be painted with a PUR paint. Older enclosures where the surface finish already reveals visible fibreglass portions can likewise be treated in this way after thorough cleaning. Of course, all enclosures can also be supplied spray-finished in RAL colours. For outdoor siting, we recommend pale shades.

## Permissible ambient temperature:

–30°C to +75°C.

## Approvals:

- UL (without viewing window)
- CSA (without viewing window)
- TÜV
- Germanischer Lloyd
- Norske Veritas
- Russian Maritime Register of Shipping
- Lloyds Register of Shipping
- Bureau Veritas
- VDE

	Packs of	Without viewing window				With viewing window		
<b>Width (B1) in mm</b>		600	600	800	1000	600	800	800
<b>Height (H1) in mm</b>		600	800	1000	1000	600	800	1000
<b>Depth (T1) in mm</b>		200	300	300	300	200	300	300
Mounting plate width (F1) mm		545	517	717	917	545	517	717
Mounting plate height (G1) mm		550	750	950	950	550	750	950
Mounting plate thickness mm		2.5	3.0	3.0	3.0	2.5	3.0	3.0
<b>Model No. KS</b>	<b>1</b>	<b>1466.600</b>	<b>1468.600</b>	<b>1480.600</b>	<b>1400.600</b>	<b>1467.600</b>	<b>1469.600</b>	<b>1479.600</b>
Door(s)		1	1	1	2	1	1	1
Weight (kg)		15.9	26.0	39.0	50.0	15.9	25.5	33.0

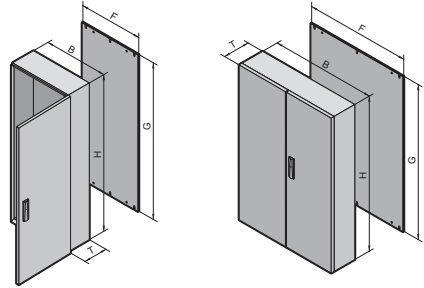
## Lock systems

Standard double-bit lock insert may be exchanged for lock inserts, type E, see Cat. 31, page 888, and Ergoform-S lock system, KS 1490.000, see page 46.

**General accessories** from page 40

# Compact system enclosures Rittal CM

**Width: 600 – 1200, height: 800 – 1400**



**Material:**

Sheet steel  
Enclosure: 1.5 mm  
Door: 2.0 mm  
Mounting plate: 3.0 mm

**Surface finish:**

Enclosure and door:  
Dipcoat primed,  
powder-coated on the  
outside in textured RAL 7035  
Mounting plate: Zinc-plated

**Protection category:**

IP 55 with selection of the  
appropriate gland plates,  
see page 35.

**Supply includes:**

Enclosure with one door, r/h  
door hinge, may be  
swapped to opposite side,  
mounting plate,  
open base for individual  
cable entry,  
see page 35.

<b>Width (B) mm</b>	Packs of	600	600	600	600	800	800	800	800
<b>Height (H) in mm</b>		800	1000	1200	1200	1000	1000	1200	1200
<b>Depth (T) in mm</b>		400	400	300	400	300	400	300	400
Mounting plate width (F) in mm		540	540	540	540	740	740	740	740
Mounting plate height (G) in mm		755	955	1155	1155	955	955	1155	1155
<b>Model No. CM</b>	1	<b>5110.500</b>	<b>5111.500</b>	<b>5112.500</b>	<b>5113.500</b>	<b>5114.500</b>	<b>5115.500</b>	<b>5116.500</b>	<b>5117.500</b>
Door		1	1	1	1	1	1	1	1

<b>Width (B) mm</b>	Packs of	1000	1000	1000	1000	1000	1200
<b>Height (H) in mm</b>		1000	1200	1200	1400	1400	1200
<b>Depth (T) in mm</b>		300	300	400	300	400	400
Mounting plate width (F) in mm		940	940	940	940	940	1140
Mounting plate height (G) in mm		955	1155	1155	1355	1355	1155
<b>Model No. CM</b>	1	<b>5118.500</b>	<b>5119.500</b>	<b>5120.500</b>	<b>5121.500</b>	<b>5122.500</b>	<b>5123.500</b>
Doors		2	2	2	2	2	2

**Lock systems**

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 47,  
and folding lever handle, see page 37.

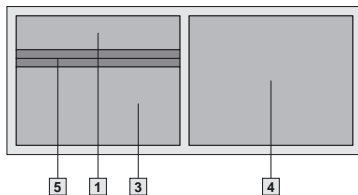
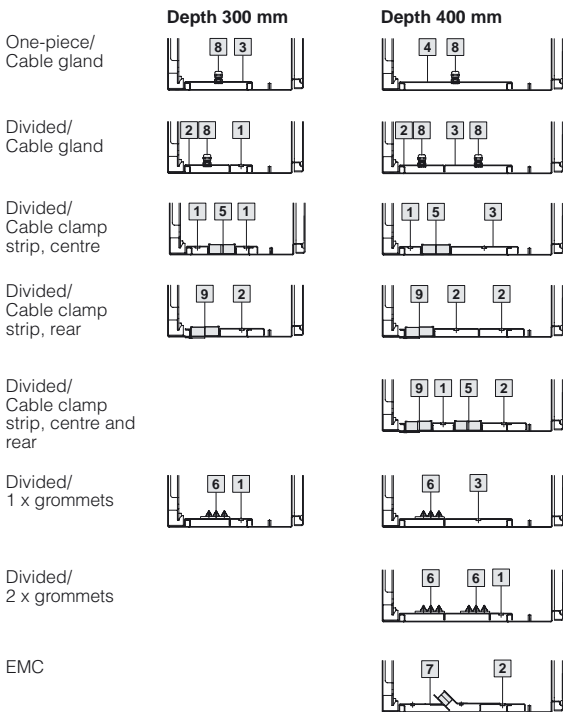
**To order primed enclosures, please add extension .800 to the Model No. Delivery times available on request.**



### Gland plates

Select suitable gland plates depending on the application. The following examples illustrate the individuality of cable entry design. Potential equalisation is provided via assembly components and earthing points.

#### Combination options:



D C D	For enclosure width mm			
	600	800	1000	1200
	Model No.			
1	5001.210	5001.211	5001.212	5001.213
2	5001.214	5001.215	5001.216	5001.217
3	5001.218	5001.219	5001.220	5001.221
4	5001.222	5001.223	5001.224	5001.225
6	5001.226 <sup>1)</sup>	5001.227 <sup>1)</sup>	5001.228 <sup>1)</sup>	5001.229 <sup>1)</sup>

<sup>1)</sup> Cable entry grommets see Cat. 31, page 965.

#### Material:

Sheet steel, zinc-plated, passivated

#### Protection category:

IP 55 if mounted correctly.

#### Supply includes:

1 piece, including assembly parts.

#### Note:

For greater stability and universal cable entry, the base opening is divided in the width for 1000 and 1200 mm wide enclosures, and is suitable for various configurations.

#### Key:

- 1 Gland plate, depth 50 mm
- 2 Gland plate, depth 100 mm
- 3 Gland plate, depth 150 mm
- 4 Gland plate, depth 250 mm
- 5 Section for cable entry, centre, see Cat. 31, page 965.
- 6 Cable entry plate, depth 100 mm, see above.  
Grommets, see Cat. 31, page 965
- 7 EMC gland plate, see Cat. 31, page 958.
- 8 Cable glands, see Cat. 31, page 972.
- 9 Section for cable entry, rear, see page 61.

#### Order example:

CM 5120.500  
(W/H/D 1000 x 1200 x 400 mm)  
– On the left, two-piece gland plates with cable clamp strip  
– On the right, one-piece gland plate

#### You will need:

- 5 2 sections for cable entry, centre, TS 8802.100, see Cat. 31, page 965 (Packs of 4)
- 1 1 gland plate, depth 50 mm, 5001.212
- 3 1 gland plate, depth 150 mm, 5001.220
- 4 1 gland plate, depth 250 mm, 5001.224

# Compact system enclosures Rittal CM

## Accessories



### Cover plate

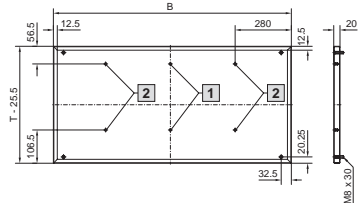
To conceal the entire base opening or as a lid with a fitted enclosure rotated through 180°.

**Material:**  
Sheet steel

**Colour:**  
Textured RAL 7035

**Supply includes:**  
Assembly parts.

For enclosure		Model No. CM
W (B) mm	D (T) mm	
600	300	<b>5001.100</b>
800		<b>5001.110</b>
1000		<b>5001.120</b>
600	400	<b>5001.130</b>
800		<b>5001.140</b>
1000		<b>5001.150</b>
1200		<b>5001.160</b>



- 1** M6 x 12 only with enclosure width 600, 800
- 2** M6 x 12 only with enclosure width 1000, 1200



### Cable clamp rail

#### C section

For strain relief with cable entry. The length of the cable clamp rail is tailored to the width of the CM and TS mounting plate. The mounting bracket included with the supply supports three different installation situations on the mounting plate:

- 1** straight, at a distance of 23 mm from the mounting plate
- 2** straight, at a distance of 10 mm from the mounting plate
- 3** tilted, towards the mounting plate

**Material:**  
Sheet steel

**Surface finish:**  
Zinc plated, passivated

**Supply includes:**  
Two mounting brackets and assembly screws.

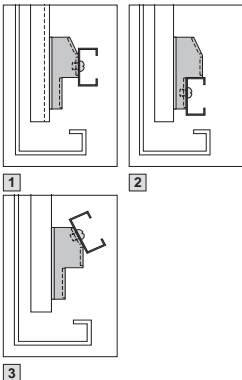
For enclosure width mm	Length mm	Model No. CM
600	499	<b>5001.080</b>
800	699	<b>5001.081</b>
1000	899	<b>5001.082</b>
1200	1099	<b>5001.083</b>



#### Accessories:

#### Cable clamps for C rails

For cable diameter mm	Packs of	Model No. DK
6 – 14	25	<b>7077.000</b>
12 – 18	25	<b>7078.000</b>
18 – 22	25	<b>7097.000</b>
22 – 26	25	<b>7097.220</b>
26 – 30	25	<b>7097.260</b>
30 – 34	25	<b>7097.300</b>
34 – 38	25	<b>7097.340</b>
38 – 42	25	<b>7098.000</b>
42 – 56	25	<b>7098.100</b>
56 – 64	25	<b>7099.000</b>





### Folding lever handle

Because the handle does not take up any swing space, due to its folding mechanism, the door surface area may be maximised for installed equipment.

#### Colour:

Enclosure: Sim. to RAL 9005

Handle: Sim. to RAL 9006

Prepared for the installation of:

- Semi-cylinders with an overall length of 40 or 45 mm (to DIN 18 254)
- All lock inserts
- As well as SZ lock and push-button inserts

	Packs of	Model No. CM
Standard version	1	<b>5001.060</b>
For padlock	1	<b>5001.062</b>

#### Accessories:

Lock inserts, see page 47.  
SZ lock and push-button inserts, see page 46.

Prepared for the installation of:

	Packs of	Model No. CM
KESO	1	<b>5001.063</b>
ASSA	1	<b>5001.064</b>

	Packs of	Model No. CM
Lock E1	1	<b>5001.061</b>

With security lock insert E1.  
Only for applications in VW, Audi, SEAT, SkodaAuto.  
Supplied without key.  
Other locks available on request.



### Lock inserts

For folding lever handle CM 5001.060 and standard CM lock (in exchange for the standard double-bit lock insert).

Design	Model No. TS
7 mm square	<b>8611.100</b>
8 mm square	<b>8611.110</b>
6.5 mm triangular	<b>8611.220</b>
7 mm triangular	<b>8611.120</b>
8 mm triangular	<b>8611.130</b>
Screwdriver	<b>8611.140</b>
Daimler	<b>8611.150</b>
3 mm double-bit	<b>8611.160</b>
Fiat	<b>8611.170</b>



### Hinges, 180°

For retrospective conversion of standard doors with 130° hinges. One pack is sufficient for one door – i.e. with two-door enclosures, two packs will be required.

#### Supply includes:

Assembly parts.

Packs of	Model No. CM
3	<b>5001.000</b>

# Compact system enclosures Rittal CM

## Accessories



### Rails for interior installation

For mounting on the threaded bolts provided on the enclosure.  
With TS system punchings on three sides.

#### Material:

Sheet steel, zinc plated, passivated

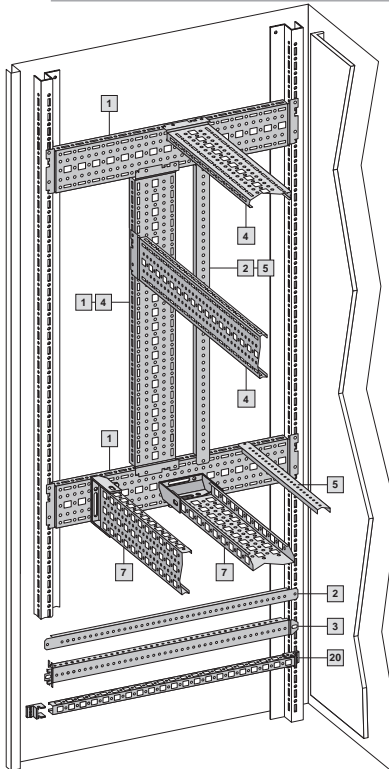
#### Supply includes:

Assembly parts.

For enclosure height/ width mm	Packs of	Model No. SZ
600	4	<b>5001.050</b>
800	4	<b>5001.051</b>
1000	4	<b>5001.052</b>
1200	4	<b>5001.053</b>
1400	4	<b>5001.054</b>



Installation accessories	Model No.			
	For depth mm			
	300		400	
1 TS punched section with mounting flange, 17 x 73 mm for the outer level	8612.130		8612.140	
2 TS support strip for the outer level	–		4694.000	
3 TS punched rail 18 x 38 mm	–		8612.240	
20 PS punched rail 23 x 23 mm with mounting bracket TS	–		4169.000	
	For width (mm)			
	600	800	1000	1200
4 TS punched section with mounting flange, 17 x 73 mm for the inner level	8612.060	8612.080	8612.000	8612.020
5 TS support strip for the inner level	8800.130	4579.000	–	–
7 PS punched section without mounting flange 23 x 73 mm, with support bracket TS (alternatively with one or two punched rails 23 x 23 mm)	4376.000	4377.000	4382.000	4378.000



### Partial mounting plates

for universal interior installation, see Cat. 31, page 913.

#### Installation:

static via TS punched sections with mounting flanges mounted in the depth **1**, horizontally hinged via PS punched sections without mounting flanges mounted in the depth **7** and hinge attachment for partial mounting plates, see Cat. 31, page 914.

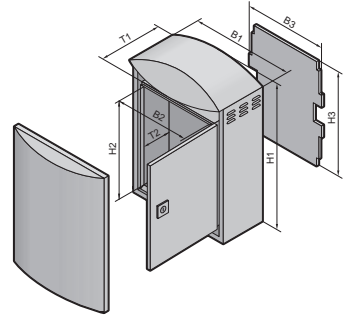
### Swing frame, small

for 600 and 800 mm wide enclosures, see Cat. 31, page 993.

#### Installation:

via PS punched sections without mounting flanges mounted in the depth **7**.

## CS wall-mounted enclosures



### Material:

Aluminium AlMg3  
Enclosure:  
Exterior: 2.0 mm  
Interior: 1.5 mm / 2.0 mm  
Doors: 2.0 mm  
Mounting plate/rotating frame:  
2.0 mm clear chromated

### Colour:

RAL 7035

### Protection category:

IP 55 to EN 60 529/10.91

### Supply includes:

Inner enclosure with door, aluminium mounting plate or rotating frame, security lock (CS 9791.045 and CS 9791.145 with 2 security locks), foamed-in door seals, gland plate at bottom, mounting bracket for thermostat, outer enclosure with integral vent louvres, designer cover with security lock, C rails on the rear panel.

### Protection rights for wall-mounted enclosure with mounting plate:

German utility model no. 297 16 467  
German registered design no. 97 08 625  
UK registered design no. 2 072 965  
IR reg. design no. DM/044 110 with validity for ES, FR, IT, Indonesia  
US patent no. 6,024,236  
European patent no. 0 902 514 with validity for FI, GB, SE  
Japan. patent no. 3 189 210

1 Wall-mounted enclosure with mounting plate

2 482.6 mm (19") rotating frame



### Rittal service:

**Complete customised interior installation** of the wall-mounted enclosure up to integration level 4 to the customer's specifications is available.

**Detailed drawing,** can be found on the Internet.

Width (B1) in mm	Packs of	370/300	420/350	530/460	630/580	630/580
Height (H1) in mm		522.5/400	560.5/440	700/565	780/580	780/580
Depth (T1) in mm		210/170	210/170	265/220	380/333	380/333
Clearance width (B2) in mm		280	330	440	560	560
Clearance height (H2) in mm		380	420	545	560	560
Clearance depth (T2) in mm		145	145	195	308	240 <sup>2)</sup>
Mounting plate width (B3) in mm		270	320	430	550	–
Mounting plate height (H3) in mm		380	410	535	550	–
<b>Model No. CS</b>	1	<b>9791.015</b>	<b>9791.025</b>	<b>9791.035</b>	<b>9791.045</b>	<b>9791.145<sup>1)</sup></b>

<sup>1)</sup> With 5 U rotating frame instead of mounting plate.

<sup>2)</sup> Max. installation depth in the 482.6 mm (19") level.



### Wall mounting

For mounting on a wall or panel.

### Material:

Stainless steel 1.4301 (AISI 304)

Packs of	Model No. CS
4	<b>9765.120</b>



### Pole clamp

### Supply includes:

4 clamping sections,  
2 clamping straps,  
4 clamping brackets.

Packs of	Model No. CS
1 set	<b>9765.125</b>

# Accessories

## Base/doors/locks

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Base/plinth, complete . . . . .	41	Plastic handles . . . . .	47
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Support rails TS 35/7.5 and TS 35/15 . . . . .	53	Standard light . . . . .	56
Support rails . . . . .	53	Courtesy light . . . . .	56
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## Cable management

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## Miscellaneous

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Utility shelf . . . . .	69
Interface flap . . . . .	69





### Base/plinth, complete

**Sheet steel for AE, AK, AP, AP universal console, ES, PC-ES**

Consisting of:  
Trim panels at the front and rear with fitted corner pieces and side trim panels.

**Material:**  
Sheet steel, spray finished

**Colour:**  
RAL 7022

### Supply includes:

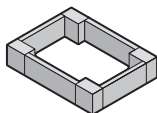
Assembly parts including 4 screws and captive nuts M12 for mounting on the enclosure.

### 100 mm high:

4 corner pieces, 2 trim panels front/rear  
2 trim panels, side.

### 200 mm high:

4 corner pieces,  
1 trim panel front/rear x 200 mm,  
2 trim panels front/rear x 100 mm,  
4 trim panels, side.



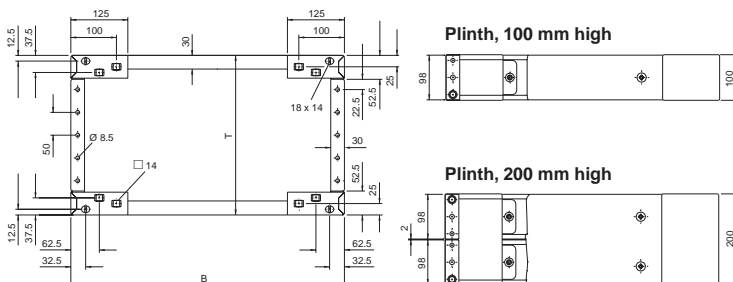
### Base/plinth for AE, AK, AP

For enclosures / consoles		Base/plinth depth (T) mm	Model No. SO	
Width (B) mm	Depth mm		100 mm high	200 mm high
600	300	279	<b>2816.200</b>	<b>2826.200</b>
600	400	370	<b>2911.200</b>	<b>2912.200</b>
800	300	279	<b>2818.200</b>	<b>2828.200</b>
800	400	370	<b>2901.200</b>	<b>2902.200</b>
800	500	440	<b>2841.200</b>	<b>2842.200</b>
1000	300	279	<b>2801.200</b>	<b>2802.200</b>
1000	400	370	<b>2891.200</b>	<b>2892.200</b>
1200	400	370	<b>2921.200</b>	<b>2922.200</b>
1200	500	440	<b>2851.200</b>	<b>2852.200</b>
1600	400	370	<b>2961.200</b>	<b>2962.200</b>
1600	500	440	<b>2863.200</b>	<b>2864.200</b>

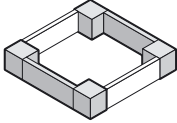


### Accessories:

Fastening bolts for base/plinth trim,  
see Catalogue 31, page 838.  
Base assembly plate,  
see Catalogue 31, page 838.



## Base/plinth



### Base/plinth components front and rear

#### Sheet steel

#### for TS, CM, PC-TS, IW, FR(i), TE

Base/plinth component consisting of one trim panel and two pre-configured corner pieces. In 200 mm high base/plinth components, one trim panel is divided into two for cable entry.

#### Material:

Sheet steel, spray finished in RAL 7022  
Cover caps: Plastic RAL 9005

#### Supply includes:

1 set =  
2 base/plinth components, 4 cover caps,  
4 screws and captive nuts M12  
for mounting on the enclosure.

### Base/plinth trim, side

#### Sheet steel

#### for TS, CM, PC-TS, IW, FR(i), TE

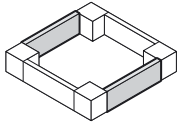
For mounting between the base/plinth components. At 200 mm height, two 100 mm base/plinth trims may be used.

#### Material:

Sheet steel, spray finished in RAL 7022

#### Supply includes:

1 set =  
2 base/plinth trim panels, including parts for  
attaching to the base/plinth components.



For enclosure width mm	Model No. TS	
	100 mm high	200 mm high
600	<b>8601.600</b>	<b>8602.600</b>
800	<b>8601.800</b>	<b>8602.800</b>
1000	<b>8601.000</b>	<b>8602.000</b>
1200	<b>8601.200</b>	<b>8602.200</b>



#### Accessories:

Base assembly plate SO 2817.000,  
see Catalogue 31, page 838.

**German patent no. 198 60 408**

For enclosure depth mm	Model No. TS	
	100 mm high	200 mm high
300	<b>8601.030</b>	<b>8602.030</b>
400	<b>8601.040</b>	<b>8602.040</b>



#### Accessories:

Fastening bolts for base/plinth trim,  
see Catalogue 31, page 838.



### Interior door with mounting frame for compact enclosure AE IP 69K

For the installation of control and display components. Mounting frame, depth-adjustable for a distance between the outer surface and the inside of the outer door of 35 to 85 mm (80 mm with AE 1101.010).

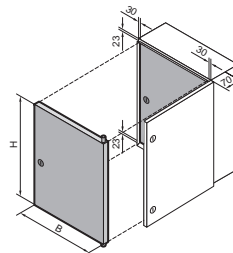
**Material:**  
Sheet steel, 1.5 mm

**Colour:**  
RAL 7035

**Supply includes:**  
Mounting frame, door with cam lock and screwdriver insert, including assembly parts.



For AE enclosure	W (B) mm	H mm	Model No. AE
1101.010	160	260	<b>1101.910</b>
1101.020	330	330	<b>1101.920</b>
1101.030	330	580	<b>1101.930</b>
1101.040	580	580	<b>1101.940</b>



### Acrylic glazed cover

With security lock, lock no. 3524 E.

**Material:**  
Frame:  
Extruded aluminium sections with die-cast corner pieces  
Glass panel: Smoked acrylic

**Protection category:**  
IP 54 to EN 60 529/10.91



### Acrylic glazed covers, 482.6 mm (19")

U	Width mm	Height mm	Depth mm	Model No. FT
3	320	158	47.5	<b>2780.000</b>
3	534	158	47.5	<b>2781.000</b>
6	534	291.5	47.5	<b>2782.000</b>
9	534	425	47.5	<b>2796.000</b>

Max. installation depth: 43 mm

Visible area:  
(width – 40 mm) x (height – 20.5 mm)

### Metric acrylic glazed covers

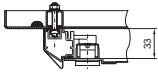
Width mm	Height mm	Depth mm	Model No. FT
400	200	47.5	<b>2784.000</b>
400	400	47.5	<b>2785.000</b>
500	200	47.5	<b>2786.000</b>
500	400	47.5	<b>2787.000</b>
600	200	47.5	<b>2788.000</b>
600	400	47.5	<b>2789.000</b>

Max. installation depth: 43 mm

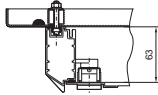
Visible area:  
(width – 40 mm) x (height – 20.5 mm)



Profile height 30



Profile height 60



### System windows

To conceal display and operating instruments or cut-outs, and to protect against dirt and liquids as well as unauthorised access.

#### Consisting of the following components:

##### 1. Base frame:

- Easily screw-fastened to the door thanks to modified dimensions (tubular door frame may be used as a drilling template).
- Readily height-adjustable.
- Stabilises the door cut-out.
- Conceals the cut edge.
- The rain canopy
  - prevents dirt from landing on the seal,
  - protects the glass from being lifted out,
  - prevents the ingress of dirt and moisture when opening the window.

##### 2. Viewing window:

- Made from single-pane safety glass:
  - high level of resistance to solvents and scratches,
  - anti-static,
  - reduced risk of injury if broken.
- Integral cam lock with double-bit insert, easily exchanged for all standard lock inserts and semi-cylinders in the Ergoform-S lock system (not with FT 2735.500 and .560).
- Hinge with 180° opening angle, easily inserted.

##### Material:

System windows:  
Extruded aluminium sections with die-cast zinc corner pieces and single-pane safety glass.

##### Surface finish:

Base frame:  
Powder coated in RAL 7035.  
Hinge and lock section:  
Natural anodised.

##### Protection category:

IP 54 to EN 60 529/10.91.

To fit TS, ES, IW with width mm	Window size (mm)				Model No. FT 30 section	Model No. FT 60 section
	external		internal			
	W	H	w	h		
600	500	430	270	200	<b>2735.500</b>	–
			370	300	<b>2735.510</b>	<b>2736.510</b>
			470	400	<b>2735.520</b>	<b>2736.520</b>
			570	500	<b>2735.530</b>	<b>2736.530</b>
			670	600	<b>2735.540</b>	<b>2736.540</b>
800	700	630	270	200	<b>2735.560</b>	–
			370	300	<b>2735.570</b>	–
			470	400	<b>2735.580</b>	<b>2736.580</b>
			570	500	<b>2735.590</b>	<b>2736.590</b>
			670	600	<b>2735.250</b>	<b>2736.500</b>
Other sizes <sup>1)</sup>					<b>2735.509</b>	<b>2736.509</b>

#### Lock systems

Standard double-bit lock insert may be exchanged for 27 mm lock inserts, type A, see page 47 and Ergoform-S lock system (except H = 270 mm), see page 46.

<sup>1)</sup>Please also specify the external dimensions of the viewing window.  
Delivery times available on request.

#### Example:

System window (30 profile) to fit door width 500 mm  
with width W = 400 mm x height H = 480 mm (w x h = 330 mm x 410 mm)

**Model No. FT 2735.509/W x H = 400 x 480 mm.**



### Viewing window

- For mounting on
- AE instead of door
  - Surfaces

**Material:**

Frame: Aluminium, natural anodised.  
Glass panel: Acrylic

**Protection category:**

IP 54 to EN 60 529/10.91

**Supply includes:**

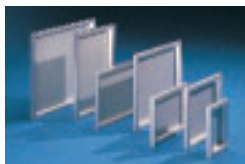
Plastic handle with lock insert no. 3524 E.

For use as door variant with AE	Width mm	Height mm	Model No. FT	
			Depth = 34 mm	Depth = 60 mm
1039.500, 1339.500, 1009.500	599	377	<b>2730.000</b>	<b>2760.000</b>
1050.500, 1350.500, 1007.500	499	497	<b>2733.000</b>	<b>2763.000</b>
1010.500, 1060.500, 1360.500	599	597	<b>2731.000</b>	<b>2761.000</b>
1012.500, 1076.500, 1376.500	599	757	<b>2732.000</b>	<b>2762.000</b>
for 3 U subrack	599	197	<b>2734.000</b>	-

Max. installation depth: (depth – 4 mm) Visible area: (width – 60 mm) x (height – 60 mm)

**Note:**

Other modules available on request.



### Operating panel

- For mounting on:
- AE instead of door
  - Surfaces

Frame construction with corner connectors on the inside, 3 mm aluminium plate secured from the inside and sealed against the frame.

**Material:**

Aluminium, natural anodised.

**Protection category:**

IP 54 to EN 60 529/10.91

**Supply includes:**

Aluminium frame, display panel, hinges, brackets.

**German patent no. 28 47,994**

**European patent no. 10,763**

**with validity for AT, BE, CH, FR, GB, NL, SE**



**Accessories:**

Cam lock FT 2749.000,  
see Catalogue 31, page 880.



For use as door variant for AE	Width mm	Height mm	Depth mm	Model No. FT
1002.500, 1032.500, 1035.500	199	297	34	<b>2740.000<sup>1)</sup></b>
1004.500, 1030.500, 1031.500	379	297	34	<b>2741.000</b>
1006.500, 1380.500	379	377	34	<b>2742.000</b>
1008.500, 1038.500, 1338.500	379	597	34	<b>2743.000</b>
1007.500, 1013.500, 1050.500, 1350.500	499	497	34	<b>2745.000</b>
1009.500, 1039.500, 1339.500	599	377	34	<b>2744.000</b>
1010.500, 1060.500, 1360.500	599	597	34	<b>2746.000</b>

<sup>1)</sup> With AE, only for use on the rear panel

Area available for population: (width – 70 mm) x (height – 70 mm)  
Dimensions of aluminium plate: (width – 54 mm) x (height – 54 mm)

**Note:**

Other modules available on request.

## Locks



### The Ergoform S lock system

The unlocked handle folds down forwards and is swivelled to open the lock.

**Material:**  
Die-cast zinc

**Surface finish:**  
Powder coated



### Ergoform standard

Prepared for the installation of semi-cylinders with a total length of 40 or 45 mm (to DIN 18 254) and all 27 mm lock inserts, version A, see page 47.



To fit **KS plastic enclosures**. Prepared for the installation of semi-cylinders with a total length of 40 mm (to DIN 18 254), all 27 mm lock inserts, version A, and lock and push-button inserts, see page 46/47.

Design	Model No. SZ
RAL 7032 With brown handle	<b>2450.000</b>
Brown	<b>2451.000</b>
Matt nickel-plated	<b>2452.000</b>
RAL 7032	<b>2454.000</b>
RAL 7035	<b>2435.000</b>
RAL 7032 <sup>1)</sup> With brown handle and bracket	<b>2455.000</b>

<sup>1)</sup> Hole diameter = 7 mm for padlock

Design	Model No. KS
RAL 7032 With brown handle	<b>1490.000</b>



### Lock and push-button inserts

For installation in

- comfort handle for semi-cylinder, see Cat. 31, page 882
- Ergoform-S standard see page 46
- CM folding lever handle, see page 37

Design	Model No. SZ
Lock insert Lock no. 3524 E	<b>2467.000<sup>1)</sup></b>
Push-button insert	<b>2468.000</b>
Lock and push-button insert, lock no. 2123; No other lock is possible	<b>2469.000<sup>1)</sup></b>

<sup>1)</sup> with 2 keys



1

### Plastic handles

with cylinder insert.  
Lock no. 3524 E including assembly parts,  
seal and 2 keys.

#### Note:

The universal lock systems allows the installation of a suitable handle to suit almost any application or customer specification. The relevant product ordering page shows which handles can be fitted into each particular assembly.

#### Version B

	Colour	Model No. SZ
1	RAL 9011	2576.000
	RAL 7030	2439.000



2

#### Version B, but without cylinder insert.

	Colour	Model No. SZ
2	RAL 9011	2533.000



### T handles

#### Version B

**Material:**  
Die-cast zinc, chrome-plated

Design	Model No. SZ
With lock insert, lock no. 3524 E	2575.000
Without lock insert	2572.000

#### Supply includes:

Seal and 2 keys.



### Lock inserts

#### Version A

**Material:**  
Die-cast zinc

#### Note:

The universal lock systems allows the installation of a suitable lock to suit almost any application or customer specification. The relevant product ordering page shows which locks can be fitted into each particular assembly.

Length 27 mm	Model No. SZ
7 mm square	2460.000
8 mm square	2461.000
7 mm triangular	2462.000
8 mm triangular	2463.000
Screwdriver	2464.000
Daimler insert	2465.000
3 mm double-bit	2466.000
Fiat	2307.000
6.5 mm triangular (CNOMO)	2460.650

## Locks



### Cylinder inserts

#### Version B

Lock no. 3524 E with 2 keys.

#### Material:

Die-cast zinc

Packs of	Model No. SZ
1	<b>2571.000</b>



### Semi-cylinder lock

#### for compact enclosures AE

For retro-fitting to single-door enclosures with cam lock.

The cover plate is locked by semi-cylinders with a total length of 40/45 mm (to DIN 18 254). An additional cover protects the cylinder against dirt. The protection category of the enclosure is not impaired. Supplied without semi-cylinder.

#### Material:

Die-cast zinc

Design	Model No. SZ
RAL 7035	<b>2534.100</b>
RAL 7032	<b>2534.000</b>
Nickel-plated (matt)	<b>2534.500</b>

**German patent no. 195 12 280**

**European patent no. 0778 913**

**with validity for GB, FR, IT**

**US patent no. 5,916,282**

**Jap. patent no. 3.088.465**



### Enclosure key

For lock inserts (one double-bit key is supplied with every enclosure).

Design	Model No. SZ
Double-bit key no. 5	<b>2531.000</b>
Security key no. 3524 E	<b>2532.000</b>
7 mm triangular	<b>2545.000</b>
8 mm triangular	<b>2546.000</b>
7 mm square	<b>2547.000</b>
8 mm square	<b>2548.000</b>
Daimler key	<b>2521.000</b>
Fiat key	<b>2308.000</b>



### Universal enclosure key

Double-bit, 8 mm square, 8 mm triangular (also for 7 mm inserts), with integral screwdriver.

Packs of	Model No. SZ
1	<b>2549.000</b>





### Wiring plan pocket made of plastic for AE

For installation options, refer to table

- B = Screw-fastened to the perforated door strip on both sides
- E = Screw-fastened on one side, other side stuck with adhesive or stuck entirely with adhesive

### Supply includes:

2 holders with double-sided sticky tape, acrylic glazed pane, assembly parts.

### Note:

The acrylic glazed pane may be shortened to any required size for shorter doors.



Model No. SZ	2514.500	2514.600	2514.800
Usable width mm	340	415	615
Usable depth mm	18	18	18
Height of acrylic glazed pane mm	167	167	167

### Installation options:

For Model No. AE	Width mm			
1050.500	500	B	–	–
1057.500	500	B	–	–
1058.500	600	E	E	–
1060.500	600	E	E	–
1073.500	760	E	E	–
1076.500	600	E	E	–
1077.500	760	E	E	–
1090.500	600	E	E	–
1100.500	1000	B	–	–
1110.500	1000	B	–	–
1114.500	1000	B <sup>1)</sup>	–	–
1130.500	1000	B	–	–
1180.500	800	E	E	E
1213.500	1000	B <sup>1)</sup>	–	–
1260.500	600	E	B	–
1280.500	800	E	E	B
1350.500	500	B	–	–
1360.500	600	E	E	–
1376.500	600	E	E	–

<sup>1)</sup> Prepared for the installation in the l/h side door; for installation in the r/h side door, the acrylic glazed pane can be shortened.

### Hinges 180°

For retrospective conversion of standard doors with 130° hinges.  
Assembly parts.



### For AE

**Material:**  
Die-cast zinc

Packs of	Model No. SZ
2	2449.000

## Locks/roof/wall mounting



### Hinge pin remover

For safe and easy removal of hinge pins.

For enclosure	Model No. SM
AP/AK	<b>2431.000</b>
AE/FM	<b>2432.000</b>



### Eyebolts

#### for AE, AK

For crane transportation of enclosures, with reinforcement plate to be inserted underneath.

Thread: M12

#### Supply includes:

Eyebolts, reinforcement plates.

Packs of	Model No. SZ
4	<b>2509.000</b>



### Eyebolts

#### for CM

For crane transportation of enclosures, with reinforcement plate to be inserted underneath.

Thread: M12

#### Supply includes:

Eyebolts, reinforcement plates.

Packs of	Model No. SZ
2	<b>2509.500</b>



### Wall mounting bracket

For the attachment of KL, EB, BG and EL enclosures as well as DK and FM wall-mounted distributors.

#### Supply includes:

Assembly parts for mounting on the enclosure.

#### Note:

For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets.

Material	Wall distance mm	Packs of	Model No. KL
Brass nickel-plated	8	4	<b>1580.000</b>
Sheet steel zinc-plated, passivated	8	4	<b>1590.000</b>
Stainless steel 1.4301 (AISI 304)	8	4	<b>1594.000</b>



### Wall mounting bracket

For the attachment of KL, EB, BG, AE, CM and EL enclosures as well as DK and FM wall-mounted distributors.

#### Supply includes:

Assembly parts for mounting on the enclosure.

#### Note:

For hygiene reasons, and in view of the protection category, the stainless steel enclosures do not have any drilled holes for the wall mounting brackets.

Material	Wall distance mm	Packs of	Model No. SZ
Sheet steel zinc-plated, passivated	40	1	<b>2503.000<sup>1)</sup></b>
		4	<b>2503.010</b>
	10	1	<b>2508.000<sup>1)</sup></b>
		4	<b>2508.010</b>
Stainless steel 1.4301 (AISI 304)	10	4	<b>2433.000</b>

<sup>1)</sup> Without assembly parts.



### Wall mounting bracket for KS

For attachment to the wall, only possible from the outside of the enclosure.

**Material:**  
Fibreglass-reinforced polyamide<sup>1)</sup>

**Supply includes:**  
Assembly parts for mounting on the enclosure.

Colour	Packs of	Model No. KS/KE
Sim. to RAL 7032	4	<b>1483.000</b>
Sim. to RAL 9011	4	<b>9266.000<sup>1)</sup></b>

<sup>1)</sup> With graphite additive for Ex applications.



### Wall angle

For compact enclosures (additional holes required in the enclosure).

Material	Colour	Packs of	Model No. SZ
Sheet steel	RAL 7035	1	<b>2505.500</b>
	RAL 7032	1	<b>2505.200</b>
Stainless steel 1.4301 (AISI 304)	–	1	<b>2583.000</b>



### Wall bracket

For wall attachment of TS and ES enclosures at the roof, e. g. with heavy components on the door.

**Material:**  
Sheet steel, zinc-plated, passivated

Packs of	Model No. PS
4	<b>4595.000</b>



### Pole clamp

For reliable, convenient fastening to round or square poles.

For pole diameter / size:  
 Ø from 40 to 190 mm  
 □ from 50 to 150 mm

**Material:**  
 Mounting angles, clamping section: Sheet steel, zinc-plated, passivated  
 Clamping strap: Stainless steel 1.4301 (AISI 304)



### For KL, EB, BG, AE, KS

**Supply includes:**  
 2 mounting angles, 600 mm long  
 4 clamping sections,  
 2 clamping straps,  
 4 clamping brackets,  
 4 screws and nuts M8  
 for mounting on the enclosure.

Packs of	Model No. SZ
1 set	<b>2584.000</b>

## Interior installation



### Mounting plates for KL

For component installation outside of the enclosure. Assembly screws included as accessories with the enclosure.

#### Material:

Sheet steel, 2 mm, zinc-plated, passivated



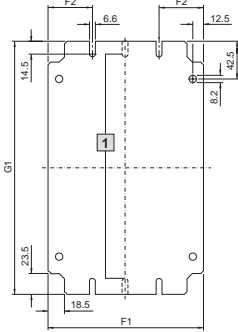
#### Accessories:

Self-tapping screws SZ 2487.000, see page 55.



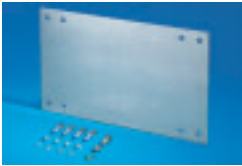
#### Possible alternative:

Support rails, see page 53.



1 Attachment in the centre only for 125 mm wide plates

For size mm	For Model No. KL	Dimensions in mm			Model No. KL
		G1	F1	F2	
150 x 150	1500.510, 1514.510, 1521.010	135	125	–	<b>1560.700</b>
200 x 150	1528.510, 1529.510	185	125	–	<b>1575.700</b>
300 x 150	1501.510, 1515.510, 1522.010, 1530.510	285	125	–	<b>1561.700</b>
400 x 150	1589.510	385	125	–	<b>1576.700</b>
200 x 200	1502.510, 1516.510, 1523.010, 1532.510	185	175	50	<b>1562.700</b>
300 x 200	1503.510, 1517.510, 1524.010, 1531.510	285	175	50	<b>1563.700</b>
400 x 200	1504.510, 1518.510, 1525.010, 1532.510	385	175	50	<b>1564.700</b>
500 x 200	1505.510, 1533.510	485	175	50	<b>1565.700</b>
600 x 200	1506.510, 1519.510, 1534.510	585	175	50	<b>1566.700</b>
800 x 200	1527.510, 1542.510	785	175	50	<b>1574.700</b>
300 x 300	1507.510, 1526.010, 1535.510	285	275	50	<b>1567.700</b>
400 x 300	1508.510, 1536.510	385	275	50	<b>1568.700</b>
500 x 300	1509.510, 1537.510	485	275	50	<b>1569.700</b>
600 x 300	1510.510, 1538.510	585	275	50	<b>1570.700</b>
400 x 400	1511.510, 1539.510	385	375	62.5	<b>1571.700</b>
600 x 400	1512.510, 1540.510	585	375	62.5	<b>1572.700</b>
800 x 400	1513.510, 1541.510	785	375	62.5	<b>1573.700</b>



### Mounting plate for Premium KL

For installing at a distance from the rear panel.

#### Material:

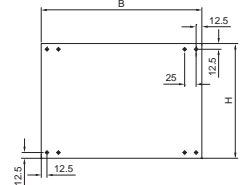
Sheet steel, zinc-plated, passivated

#### Supply includes:

Spacer bolts and assembly parts.

For KL enclosures	W (B) mm	H mm	Packs of	Model No. KL
1024.010 1024.020	100	100	1	<b>1024.910</b>
1024.030	250	150	1	<b>1024.920</b>
1024.040	350	250	1	<b>1024.930</b>

Mounting plate mounting



1 Spacer bolts M5 x 15



### Mounting bracket

#### for Premium KL

For variable attachment of support rails on a 12.5 mm pitch pattern.

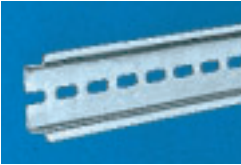
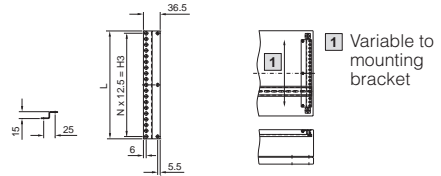
#### Material:

Stainless steel 1.4301 (AISI 304)

#### Supply includes:

Assembly parts.

For KL enclosures	L	N	Packs of	Model No. KL
1024.010 1024.020	85	6	2	<b>1024.810</b>
1024.030	135	10	2	<b>1024.820</b>
1024.040	235	18	2	<b>1024.830</b>



### Support rails TS 35/7.5 and TS 35/15

#### to EN 50 022

#### for KL, AE

Length sized to the enclosure width.

For enclosure width mm	Support rails length mm	Version	Packs of	Model No. SZ
150	137	TS 35/7.5	10	<b>2314.000</b>
200	187		10	<b>2315.000</b>
300	287		10	<b>2316.000</b>
400	387		10	<b>2317.000</b>
500	487	TS 35/15	10	<b>2318.000</b>
600	587		10	<b>2319.000</b>

### Support rails to EN 50 022

Fixed length 2 m

Version	Length	Packs of	Model No. SZ
TS 35/15	2 m	6	<b>2313.150</b>
TS 35/7.5	2 m	6	<b>2313.750</b>



### Mounting clip for support rails

For fast, secure attachment of:

- Cable ducts
  - Mounting plates
  - Mounting angles
- on support rail TS 35/7.5 and TS 35/15 to EN 50 022.

Simply pre-assemble the mounting clip on the part to be installed, then snap into position on the support rail.

Packs of	Model No. SZ
30	<b>2309.000</b>

**German patent no. 195 44 083**  
**European patent no. 0 776 077**  
**with validity for ES, FR, IT, SE**

## Interior installation



### Mounting plates Screw-fastened, small

**Material:**  
Sheet steel, zinc-plated, passivated

**Supply includes:**  
Assembly screws.

Packs of	Model No. PS
4	4532.000

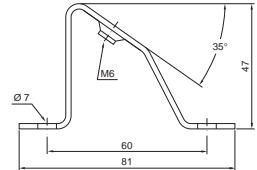
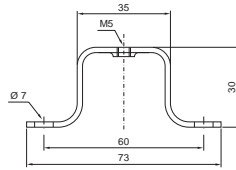


### Rail mounting bracket

for individual rail mounting.

**Material:**  
Sheet steel, zinc-plated, passivated

Cable retainer	Packs of	Model No. SZ
Flat	20	2365.000
Inclined	20	2366.000



### Universal bracket

For installing

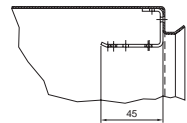
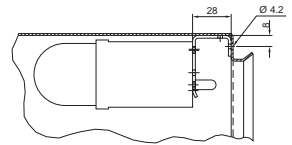
- Enclosure lights in
  - Compact enclosures AE and AK
  - Compact system enclosures Rittal CM
  - Console systems AP
- Door-operated switches in
  - Compact enclosures AE
  - Console systems AP
- Cable conduit holder SZ 2593.000 and SZ 2591.000 in
  - Compact enclosures AE
  - Console systems AP
- Support rails for terminals in
  - Operating housings and command panel housings with door.

Mounting screws are concealed when the door is closed. Existing holes for mounting blocks or hinges may be used with AE.

**Material:**  
Sheet steel, zinc-plated, passivated

**Supply includes:**  
Assembly parts.

Packs of	Model No. SZ
6	2373.000





### Mounting block

for AE

As an accessory for additional interior installation, e.g. mounting of cable ties, PS punched rails, top hat rails and C rails (e.g. for a second pair of mounting angles).

#### Supply includes:

Assembly parts.

Packs of	Model No. SZ
20	<b>2574.000</b>



### Threaded inserts M6

for KS

For securing installed equipment to the moulded bosses in the door and in the enclosure rear panel.  
Screw length available for insertion: 8 mm.

Packs of	Model No. KS
20	<b>1482.000</b>



### Self-tapping screws

Mark, drill and tighten in a single operation using electric or pneumatic tools.

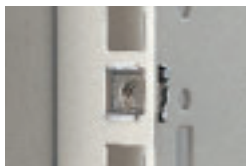
For metal thickness: 0.8 – 3 mm  
Length: 16 mm  
Usable length: 9.5 mm  
Width across flats: 8 mm

Dimensions mm	Packs of	Model No. SZ
ST 4.8 x 16	300	<b>2487.000</b>



### Captive nuts M5/M6

For the attachment of rack-mounted electronic, equipment, 482.6 mm (19") installed equipment and blanking plates to the mounting angles, 482.6 mm (19"). For use with metal thickness from 0.8 – 2.0 mm. In areas of narrow tolerance, captive nuts for metal thicknesses of 1.2 – 1.5 mm should be used. Optionally with or without contact of the installed equipment to the 482.6 mm (19") section/ enclosure.



#### Captive nut M5

Design	For metal thicknesses mm	Packs of	Model No. EL
with contact	0.8 – 2.0	50	<b>2094.500</b>
without contact	0.8 – 2.0	50	<b>2092.500</b>

#### Captive nut M6

Design	For metal thicknesses mm	Packs of	Model No. EL
with contact	0.8 – 2.0	50	<b>2094.200</b>
without contact	0.8 – 2.0	50	<b>2092.200</b>
with contact	1.2 – 1.5	50	<b>2094.300</b>
without contact	1.2 – 1.5	50	<b>2092.300</b>

## Interior installation



### System lights

For mounting in AE, AK and AP using universal bracket SZ 2373.000.

#### Light:

Universal white

#### Protection category:

IP 20 to EN 60 529/10.91



#### Also required:

Connection accessories, see page 58.



#### Accessories:

Adaptor bracket, see Catalogue 31, page 931.  
Universal bracket, see page 54.

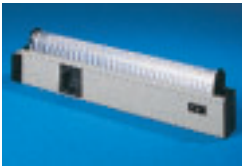
Components	Standard light	Courtesy light	Universal light	System light
Sockets and connectors for:				
– Power supply	■	■	■	■
– Through-wiring	■	■	■	■
– Facility for connecting a door-operated switch	■	■		■
Jack for normally open contact			■	■
Motion sensor			■	
Interference suppression via:				
– Radio interference suppression capacitor	■			
– Full-electronic ballast			■	
Additional manual switching with rocker or slide switch	■	■	■	■
Light cover		■	■	
Light cone adjustment			■	
Individual voltage supply 110 – 240 V		■	■	



### Standard light

Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No. SZ	Approvals
14 kW, 230 V, 50 Hz	Yes	452	117	50	<b>4138.140</b>	ENEC
18 kW, 230 V, 50 Hz	Yes	682	117	50	<b>4138.180</b>	ENEC
30 kW, 230 V, 50 Hz	Yes	987	117	50	<b>4138.300</b>	ENEC

With fluorescent lamp, socket G 13, length 375/604/908 mm



### Courtesy light

Technical specifications	Socket	Width mm	Height mm	Depth mm	Model No. SZ	Approvals
14 W, 100 – 240 V, 50/60 Hz	Yes	452	117	50	<b>4139.140</b>	ENEC
18 W, 100 – 240 V, 50/60 Hz	Yes	682	117	50	<b>4139.180</b>	ENEC
30 W, 100 – 240 V, 50/60 Hz	Yes	987	117	50	<b>4139.300</b>	ENEC

With fluorescent lamp, socket G 13, length 375/604/908 mm







### Universal light

Technical specifications	Socket	W mm	H mm	D mm	Model No. SZ	Approvals
26 W, 110 – 240 V, 50 – 60 Hz	Yes	345	95	55	<b>4155.100</b>	VDE
	No	345	95	55	<b>4155.000</b>	VDE
	No	345	95	55	<b>4155.500</b>	UL

With compact fluorescent lamp, TC-DEL 26 W, base G24q-3, length 174 mm



### System light with filament tube (Linestra)

Technical specifications	Socket	W mm	H mm	D mm	Model No. SZ
35 W, 230 V AC/DC	No	380	59	41	<b>4103.350<sup>1)</sup></b>
60 W, 230 V AC/DC	No	580	59	41	<b>4103.600<sup>2)</sup></b>

With filament tube.

<sup>1)</sup> base 35 S14s, length 300 mm

<sup>2)</sup> base 60 S14s, length 500 mm

### Connection accessories

The following components can be used for time-saving and simple installation of the lights:



#### Accessories:

Cable ties for quick assembly, see page 68.



Connection cable for	Length mm	Packs of	Model No. SZ		
			Orange	Yellow	Grey
Power supply (with socket, without connector)	3000	5	<b>4315.100</b>	<b>4315.110</b>	-
Power supply (with jack and strain relief, without connector)	3000	1	-	-	<b>4315.150</b>



Door-operated switch with mounting accessories	Length mm	Packs of	Model No. SZ	
			Orange	Yellow
With connection cable	600	1	<b>4315.500</b>	<b>4315.510</b>
	1000		<b>4315.300</b>	<b>4315.310</b>
Without connection cable	-		<b>4127.000</b>	



Connection component with circuit-breaker 10 A	Packs of	Model No. SZ
Reduce assembly costs: Power is supplied quickly and reliably to system lights via the connection cable. For independently configured cables, connector SZ 2507.200 must be used. Connection component to be snapped onto the top hat rail.	1	<b>2507.500</b>



For self-assembly	Packs of	Model No. SZ
Sockets for power supply	5	<b>2507.100</b>
Connector for door operated switch cable		<b>2507.400</b>

## Interior installation/cable management



### Earth straps

For configuring a reliable earthing connection with perfect contact.

- With ring terminals in M6 and M8 to match the earthing screw
- Length-optimised and ready to install

For	Door/lid	Enclosures
KL, EB, AE 1032.XXX, AE 1035.XXX	M6	M6
AE, AP	M6	M8
TS, ES, PC, AP universal console, KE	M8	M8

Con- nection	Cross- section mm <sup>2</sup>	Length mm	Packs of	Model No. SZ
M8 – M8	4	170	5	<b>2564.000</b>
M8 – M8	16	170	5	<b>2565.000</b>
M8 – M8	25	170	5	<b>2566.000</b>
M6 – M6	10	200	5	<b>2565.100</b>
M8 – M8	4	300	5	<b>2567.000</b>
M6 – M8	10	300	5	<b>2565.110</b>
M8 – M8	10	300	5	<b>2565.120</b>
M8 – M8	16	300	5	<b>2568.000</b>
M8 – M8	25	300	5	<b>2569.000</b>



### Earthing strap

Tin-plated copper, in various lengths and cross-sections with press-fitted contact rings. Earthing straps counteract the current displacement effect at high frequencies, whilst at the same time offering highly flexible connection opportunities.

For	Cross- section mm <sup>2</sup>	Length mm	Packs of	Model No. SZ
M6	10	200	10	<b>2412.210</b>
M8	16	200	10	<b>2412.216</b>
M8	25	200	10	<b>2412.225</b>
M6	10	300	10	<b>2412.310</b>
M8	16	300	10	<b>2412.316</b>
M8	25	300	10	<b>2412.325</b>



### Contact washers

Toothed contact washers facilitate secure PE conductor connection. As a result, there is no need to manually strip paint in the connection area.

Size	Packs of	Model No. SZ
M5	100	<b>2343.000</b>
M6	100	<b>2334.000</b>
M8	100	<b>2335.000</b>



### Cable entry plates

For

- Cable entry grommets
  - Connector grommets
- instead of segments of the standard divided gland plates.

**Material:**

Sheet steel, zinc-plated, passivated

**Supply includes:**

Assembly parts.

**Suitable for installation in TS, CM and PC enclosures based on TS**

Enclosure width mm	Cut-outs per plate	Packs of	Model No. TS
600	5	2	<b>8800.060</b>
800	8	2	<b>8800.080</b>
1000	4	4	<b>8800.100</b>
1200	6	4	<b>8800.120</b>

## Cable management



### Cable entry grommets

In conjunction with the cable entry plate, simple and fast sealing of cables inserted in the base area of enclosures.

**Material:**

Body: Polypropylene  
Cover: Thermoplastic elastomer

**Protection category:**

IP 55 subject to correct mounting.

Cables per grommet	max. Ø mm	Packs of	Model No. PS
8	13	25	<b>4316.000</b>
3	21	25	<b>4317.000</b>
1	47	25	<b>4318.000</b>

**German patent no. 42 07 281**  
**European patent no. 0560119**  
**with validity for FR, GB, IT, NL**  
**Japan. Patent no. 2533052**  
**US patent no. 5,422,436**



### Connector grommets

Suitable for cable diameters from 8 to 36 mm.

**Material:**

Outer cover: Polypropylene covered with thermoplastic elastomer  
Seal: Cellular rubber

**Protection category:**

IP 55 subject to correct mounting.

Packs of	Model No. PS
10	<b>4311.000</b>

**German patent no. 44 05 328**  
**Italian patent no. 127 3503**  
**French patent no. 2 716 583**



### Foam rubber cable clamp strip

For sealing the cable entry between the gland plates. Particularly suitable for identical cable cross-sections.

**Material:**

Seal PU foam,  
cross-section: 30 x 30 mm

**Protection category:**

IP 55 subject to correct mounting.

Packs of	Model No. SZ
3 m	<b>2573.000</b>



### Section for cable entry for TS, CM

For mounting on top of the gland plates existing in the enclosure. The better alternative to the foam rubber cable clamp strip, thanks to:

- Easier mounting
- Full-surface support
- High level of sealing of cables inserted into the enclosure.

**Material:**

Extruded aluminium section,  
seal PU foam,  
cross-section: 30 x 25 mm

**Protection category:**

IP 55 subject to correct mounting.

For enclosure width mm	Packs of	Model No. TS
600	2	<b>8802.060</b>
800	2	<b>8802.080</b>
1000	4	<b>8802.100</b>
1200	4	<b>8802.120</b>



### Section for cable entry, rear for TS, CM

Unlike the section for cable entry, centre, the rear section is mounted directly onto the base opening. In this way, when installing the mounting plate in the rearmost position (TS) or with CM, the cable may be routed directly on a cable clamping rail with no large radii. In conjunction with the new cable clamp rail, see page 36, optimum adjustment between the cable entry and mounting plate can be achieved.

#### Material:

Extruded aluminium section, seal PU foam, cross-section: 30 x 25 mm

#### Protection category:

IP 55 subject to correct mounting.

For enclosure width mm	Packs of	Model No. TS
600	1 set	<b>8802.065</b>
800	1 set	<b>8802.085</b>
1000	2 sets	<b>8802.105</b>
1200	2 sets	<b>8802.125</b>

#### Supply includes:

1 set =  
1 section for base opening,  
1 section for base plate,  
each with bonded seal.



### Plastic cable gland plates

With prepunched PG holes for cable glands. Used for sealing standard gland plates. Temperature range: suitable for use from -40°C to +70°C.

#### Material:

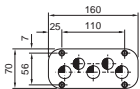
SZ 2560.000, SZ 2561.000 = PS  
SZ 2562.000 = ABS  
SZ 2563.000 = Polyamide, glass bead reinforced

#### Colour:

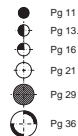
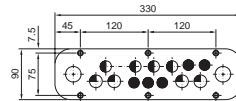
RAL 7035

Size	For	Packs of	Model No. SZ
1	AE 1032.500, AE 1035.500	10	<b>2560.000</b>
3	AE 1030.500, AE 1031.500, AE 1380.500, AE 1038.500	10	<b>2561.000</b>
4	AE 1110.500, AE 1114.500, AE 1338.500, AE 1100.500, AE 1045.500, AE 1057.500, AE 1050.500, AE 1130.500, AE 1213.500, AE 1350.500, CS 9771.111, CS 9771.115, CS 9751.145, CS 9751.165, CS 9774.200, CS 9774.210, CS 9774.250, CS 9774.400, CS 9774.410, CS 9774.450	5	<b>2562.000</b>
5	AE 1039.500, AE 1339.500, AE 1060.500, AE 1076.500, AE 1077.500, AE 1180.500, AE 1058.500, AE 1090.500, AE 1360.500, AE 1376.500, AE 1073.500, AE 1260.500, AE 1280.500, EL 1919.200, EL 1920.200, EL 1926.200, DK 7011.535, DK 7012.535, DK 7013.535, DK 7014.535, DK 7644.000, DK 7641.000, DK 7643.000, DK 7645.000, CS 9772.111, CS 9772.115	5	<b>2563.000</b>

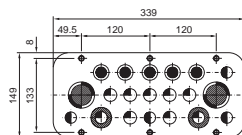
Size 1



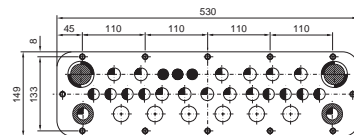
Size 3



Size 4



Size 5



## Cable management



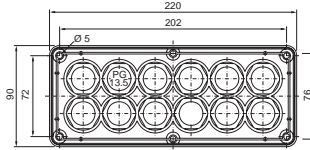
### Plastic cable gland plates for KL and small fibre-optic distributors based on AE.

With prepunched PG holes for cable glands. Used for sealing standard gland plates. Temperature range: suitable for use from -40°C to +70°C.

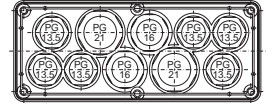
**Material:**  
ABS

**Colour:**  
RAL 7035

**KL 1581.000**



**KL 1582.000**



### Plastic gland plates with membranes for AE, EL, DK, CS

Simply pierce the plastic with a sharp object, and pull through the cable.

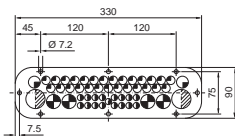
**Material:**  
Plastic to UL 94-V2

**Colour:**  
Similar to RAL 7035

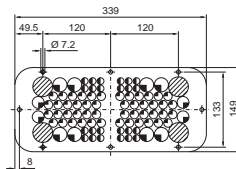
**Protection category:**  
IP 65 with careful cable entry.

Size	For	Packs of	Model No. SZ
3	AE 1030.500, AE 1031.500, AE 1038.500, AE 1380.500	1	<b>2561.500</b>
4	AE 1045.500, AE 1050.500, AE 1057.500, AE 1100.500, AE 1110.500, AE 1114.500, AE 1130.500, AE 1213.500, AE 1338.500, AE 1350.500, CS 9771.111, CS 9771.115, CS 9751.145, CS 9751.165, CS 9774.200, CS 9774.210, CS 9774.250, CS 9774.400, CS 9774.410, CS 9774.450	1	<b>2562.500</b>
5	AE 1039.500, AE 1058.500, AE 1060.500, AE 1073.500, AE 1076.500, AE 1077.500, AE 1090.500, AE 1180.500, AE 1260.500, AE 1280.500, AE 1339.500, AE 1360.500, AE 1376.500, EL 1919.200, EL 1920.200, EL 1926.200, DK 7011.535, DK 7012.535, DK 7013.535, DK 7014.535, DK 7641.000, DK 7643.000, DK 7644.000, DK 7645.000, CS 9772.111, CS 9772.115	1	<b>2563.500</b>

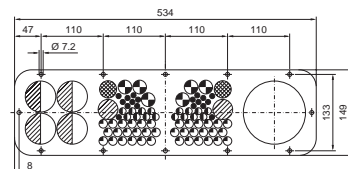
Size 3



Size 4



Size 5



	Diameter mm	Number of cable entries for Model No. SZ		
		2561.500	2562.500	2563.500
●	5 – 9	–	–	18
◐	6 – 11	17	–	–
◑	7 – 12	–	24	16
◒	10 – 15	27	48	36
◓	15 – 21	2	4	–
◔	15 – 24	–	–	6
◕	15 – 25	–	8	–
◖	16 – 25	4	–	–
◗	19 – 34	2	–	–
◘	23 – 30	–	–	2
◙	26 – 35	–	4	2
◚	26 – 54	–	–	4
○	50 – 110	–	–	1



### Metal gland plates

**Pre-punched for AE, EL, DK, CS**

Simply knock out the holes for the cable glands using a screwdriver.

**Material:**

Sheet steel

**Colour:**

RAL 7035

**Protection category:**

IP 66 when mounting in the usual position, bottom.

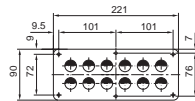


**Accessories:**

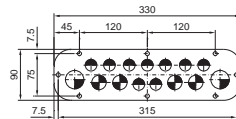
Cable glands made from polyamide or brass, see page 65.

Size	For	Packs of	Model No. SZ
2	KL 1530.510, KL 1531.510, KL 1532.510, KL 1533.510, KL 1534.510, KL 1535.510, KL 1536.510, KL 1537.510, KL 1538.510, KL 1539.510, KL 1540.510, KL 1541.510, KL 1542.510	1	<b>1581.100</b>
3	AE 1030.500, AE 1031.500, AE 1038.500, AE 1380.500	1	<b>2561.100</b>
4	AE 1045.500, AE 1050.500, AE 1057.500, AE 1100.500, AE 1110.500, AE 1114.500, AE 1130.500, AE 1213.500, AE 1338.500, AE 1350.500, CS 9771.111, CS 9771.115, CS 9751.145, CS 9751.165, CS 9774.200, CS 9774.210, CS 9774.250, CS 9774.400, CS 9774.410, CS 9774.450	1	<b>2562.100</b>
5	AE 1039.500, AE 1058.500, AE 1060.500, AE 1073.500, AE 1076.500, AE 1077.500, AE 1090.500, AE 1180.500, AE 1260.500, AE 1280.500, AE 1339.500, AE 1360.500, AE 1376.500, EL 1919.200, EL 1920.200, EL 1926.200, DK 7011.535, DK 7012.535, DK 7013.535, DK 7014.535, DK 7641.000, DK 7643.000, DK 7644.000, DK 7645.000, CS 9772.111, CS 9772.115	1	<b>2563.100</b>

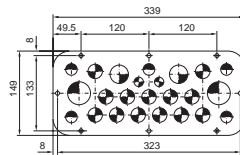
Size 2



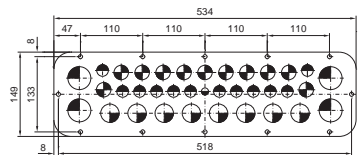
Size 3



Size 4



Size 5



	Diameter	Number of cable entries for			
		Model No. SZ			
		1581.100	2561.100	2562.100	2563.100
	M12	–	–	–	1
	M16	–	–	2	–
	M20	12	9	5	12
	M25	–	4	13	11
	M32	–	2	2	8
	M40	–	–	2	4

## Cable management



### Metal gland plates

For

- KL terminal boxes, see page 13.
- CP pillar, see Catalogue 31, page 236.
- IW enclosures, see Catalogue 31, page 240 – 255.

#### Material:

Sheet steel, spray finished

#### Colour:

RAL 7035

Cut-out	Packs of	Model No. KL
Without	6	<b>1158.500</b>
1 x connector, 16-pole	6	<b>1158.560</b>
1 x connector, 24-pole	6	<b>1158.540</b>
3 x module plates	6	<b>1158.530</b>



#### Accessories:

Module plates for individual cable entry, see page 64.



1

2



3

4



5

6

### Module plates

#### for individual cable entry

Fig.	Design	Material	Packs of	Model No. BG
1	With connector grommet for 2 cables with connectors up to $d = 8.5$ mm	Module plate: Sheet steel, zinc-plated, passivated Connector gland: (For details, see SZ 2400.300, see Cat. 31, page 975)	1	<b>1158.900</b>
2	Perforated for metric cable gland	M25	10	<b>1158.910</b>
3		M32		<b>1158.920</b>
4	Solid	Sheet steel, zinc-plated, passivated		<b>1158.930</b>
5	For direct, IP-protected insertion of sensor/ actuator cables	2 + 2 <sup>1)</sup>	1	<b>1158.940</b>
6		8 <sup>2)</sup>		<b>1158.950</b>

To fit Ø

<sup>1)</sup> 2 cables from 6.8 to 8.8 mm and

2 cables from 7.8 to 10.7 mm

<sup>2)</sup> 8 cables from 3.8 to 6.3 mm

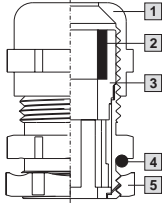




### Cable gland, brass

**Benefits:**

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage.
- Clamping membranes for even tightening and strain relief which protects the cables.
- Insulation thanks to plastic insert.
- Optimum seal on the connection thread, thanks to O-ring.
- The lock nut cuts automatically into the spray-finish, thereby creating a conductive connection.



- 1 Top-hat nut
- 2 Neoprene seal
- 3 Plastic insert
- 4 O-ring
- 5 Lock nut

Size	Cable diameter mm	Packs of	Model No. SZ
M12 x 1.5	3 – 6.5	15	<b>2411.800</b>
M16 x 1.5	4.5 – 10	15	<b>2411.810</b>
M20 x 1.5	6 – 12	10	<b>2411.820</b>
M25 x 1.5	11 – 17	10	<b>2411.830</b>
M32 x 1.5	15 – 21	5	<b>2411.840</b>
M40 x 1.5	19 – 28	4	<b>2411.850</b>
M50 x 1.5	27 – 38	2	<b>2411.860</b>
M63 x 1.5	34 – 44	1	<b>2411.870</b>

**Material:**

Nickel-plated brass, neoprene seal

**Protection category:**

IP 68 (5 bar, 30 min.) to EN 60 529/10.91

**Approval:**

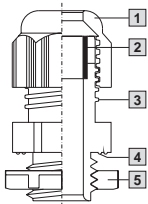
VDE tested to EN 50 262



### Cable gland, polyamide

**Benefits:**

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering and storage.
- Clamping membranes for even tightening and strain relief which protects the cables.
- Spray-moulded sealing lip ensures an optimum seal against the enclosure.
- Trapezoid thread for secure screw-fastening of the top-hat nut.



- 1 Top-hat nut
- 2 Neoprene seal
- 3 Trapezoid thread
- 4 Sealing lip
- 5 Lock nut

Size	Cable diameter mm	Packs of	Model No. SZ
M12 x 1.5	3 – 6.5	50	<b>2411.600</b>
M16 x 1.5	4.5 – 10	50	<b>2411.610</b>
M20 x 1.5	6 – 12	50	<b>2411.620</b>
M25 x 1.5	11 – 17	25	<b>2411.630</b>
M32 x 1.5	15 – 21	15	<b>2411.640</b>
M40 x 1.5	19 – 28	5	<b>2411.650</b>
M50 x 1.5	27 – 38	5	<b>2411.660</b>
M63 x 1.5	34 – 44	3	<b>2411.670</b>

**Material:**

Polyamide 6, neoprene seal

**Colour:**

RAL 7035

**Protection category:**

IP 68 (5 bar, 30 min.) to EN 60 529/10.91

**Approval:**

VDE tested to EN 50 262

## Cable management



### Multi-seal inserts

For the secure entry of several individual cables into a single cable gland.

**Material:**  
Neoprene

Size	Cable diameter mm	Number of cables	Packs of	Model No. SZ
M20	3	4	25	<b>2411.500</b>
	4	3	25	<b>2411.501</b>
	5	3	25	<b>2411.502</b>
	6	2	25	<b>2411.503</b>
M25	3	7	25	<b>2411.504</b>
	4	6	25	<b>2411.505</b>
	5	4	25	<b>2411.506</b>
	6	3	25	<b>2411.507</b>
M32	3	9	25	<b>2411.508</b>
	4	9	25	<b>2411.509</b>
	5	6	25	<b>2411.510</b>
	6	6	25	<b>2411.511</b>



### Stoppers

For the reliable sealing of unused cable entries.  
Simply insert into the multi-seal inserts instead of a cable, and clamp via the cable gland.  
Length 14 mm.

**Material:**  
Polyamide 6

Diameter mm	Packs of	Model No. SZ
3	25	<b>2411.520</b>
4	25	<b>2411.521</b>
5	25	<b>2411.522</b>
6	25	<b>2411.523</b>



### Double-membrane gland

**For wall thicknesses from 1.5 to 4.5 mm**  
A high protection category can be achieved with cable entry, thanks to the double seal.

**Material:**  
Plastic to UL 94-HB

**Protection category:**  
IP 66 with careful cable entry.

For hole	Sealing range mm	Packs of	Model No. SZ
M16	5 – 9	50	<b>2898.160</b>
M20	7 – 12	50	<b>2898.200</b>
M25	9 – 16	50	<b>2898.250</b>
M32	14 – 21	25	<b>2898.320</b>



### Stepped collar

**For wall thicknesses from 1.5 to 4.5 mm**  
For cable entry, simply cut off at the required level to match the cable diameter.

**Material:**  
Plastic to UL 94-HB

**Protection category:**  
IP 54 with careful cable entry.

For hole	Sealing range mm	Packs of	Model No. SZ
M20	5 – 16	100	<b>2899.200</b>
M25	5 – 21	50	<b>2899.250</b>
M32	13 – 26.5	25	<b>2899.320</b>
M40	13 – 34	20	<b>2899.400</b>



### Connector gland

#### for connector cut-outs (24-pole)

For the entry of 2 pre-assembled cables in the connector cut-out, without dismantling the connector.

For cable diameter from 8 – 36 mm.

#### Material:

Plastic

Clamp terminals: Sheet steel, zinc-plated, passivated

#### Supply includes:

1 set =  
2 half-shells, including seals,  
with fastening clamp.

Packs of	Model No. SZ
1 set	<b>2400.000</b>



### Cable conduit and cable conduit holder

For secure cable routing e.g. from the enclosure or mounting plate to the door. Option of attaching the cable conduit holder tailored to system punchings TS and to 482.6 mm (19") pitch pattern with no drilling required.

Attachment facility for standard commercially available cable ties is provided on the cable conduit holder, so that cables may be attached upon entry to/exit from the cable conduit.

#### Material:

Cable conduit: Polythene

Cable conduit holder: polyamide

#### Cable conduit holder:

**German patent no. 37 60 110**

**European patent no. 0 257 367**

**with validity for DE, ES, FR, GB, IT**

**US patent no. 4,779,828**

#### Cable conduit

Internal Ø mm	Packs of	Model No. SZ
16	25 m	<b>2595.000</b>
29	25 m	<b>2589.000</b>
36	25 m	<b>2596.000</b>
48	25 m	<b>2590.000</b>

#### Cable conduit holder

For cable conduit Ø mm	Packs of	Model No. SZ
16	20	<b>2593.000<sup>1)</sup></b>
29	20	<b>2591.000<sup>1)</sup></b>
36	20	<b>2594.000</b>
48	20	<b>2592.000</b>

<sup>1)</sup> Installation in compact enclosures AE with universal bracket SZ 2373.000, see page 54.



### Cable fastening

For professional, secure fastening of cables and conduits.

For fastening:

- Slide into the mounting rail 23 x 23 mm,
- screw-fasten onto the round punchings of the enclosures, as well as all punched rails and punched sections.

As the fastening attachments are bayable, several fastening attachments, even those of different sizes, can be assembled using just 2 screws.

#### Material:

Polyamide

For cable diameter from – to mm	Packs of	Model No. PS
6 – 9	50	<b>4319.090</b>
9 – 12	50	<b>4319.120</b>
12 – 16	50	<b>4319.160</b>
16 – 20	50	<b>4319.200</b>



#### Also required:

Posidrive raised countersunk screw M5 x 12 mm, SZ 2488.000, for screw-fastening to the round system punchings, see Catalogue 31, page 937.



#### Accessories:

Punched rail 23 x 23 mm, see Catalogue 31, page 925.

## Cable management/miscellaneous



### Cable ties

The super-fast solution for fastening cables to the enclosure profile or mounting system parts. Simply clip into the round system punchings.

Length mm	Packs of	Model No. SZ
150	100	<b>2597.000</b>



### Metal cable ties

see Catalogue 31, page 958.



### Compact swing frame for AE, AP

For the installation of electronic equipment, 482.6 mm (19") across the entire height.

#### Technical specifications:

Torsionally stiff frame, welded from rectangular tube and triple-folded support section.

#### Material:

Sheet steel

#### Colour:

RAL 7035

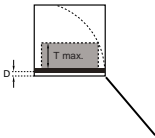
#### Supply includes:

Double-bit lock insert and assembly parts.



#### Accessories:

41 mm lock insert, type C, see Catalogue 31, page 888.



### For AE

For compact enclosure AE			Height units	6 U	11 U	14 U
Enclosure		Max. Installation depth (T max.) mm	Model No. SR	2026.200	2027.200	2034.200
Width mm	Depth mm			For enclosure height mm	380	600
		H1 (mm)		320	542	676
			H2 (mm)	270	492	626
600	210	145	Spray-finished	1039.500	1060.500	1076.500
			Stainless steel	1009.500	1010.500	1012.500
600	350	265	Spray-finished	1339.500	1360.500	1376.500
760	210	145	Spray-finished	–	–	1077.500
760	300	235	Spray-finished	–	–	1073.500
			Stainless steel	–	–	1014.500



### Utility shelf

#### Fastened with screws

With support mat for:  
Measuring tools, writing equipment, mouse,  
scanner, small parts etc.

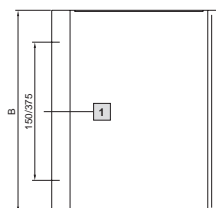
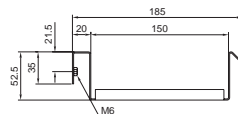
For mounting on surfaces (doors, rear  
panels) via rear assembly holes.

**Material:**  
Sheet steel

**Colour:**  
RAL 7035

**Supply includes:**  
Assembly parts.

Width (B) mm	Model No. CP
220	<b>6514.110</b>
450	<b>6514.100</b>



**1** Additional central thread  
only for CP 6514.100



### Interface flap

The compact alternative to the interface box.  
For secure accommodation of all standard  
sockets, computer ports, 3 1/2" or CD-ROM  
drives.

The cast aluminium flap ensures a high  
mechanical load-bearing capacity, and  
guards against unauthorised access.

For:

- Any sufficiently large surface.

Standard double-bit lock insert may be  
exchanged for lock inserts,  
see page 47.

**Material:**  
Cover: Cast aluminium, finely textured  
Cover plate: Sheet steel 2 mm, zinc-plated,  
passivated

**Colour:**  
RAL 7035

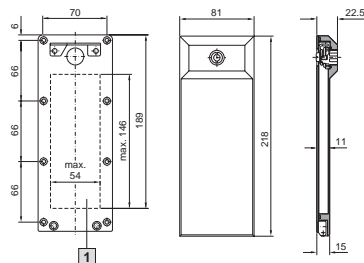
**Protection category:**  
IP 65 to EN 60 529/10.91

**Supply includes:**  
Seal and assembly parts.

Packs of	Model No. SZ
1	<b>2482.200</b>

View without flap

View with flap



**1** Surface for interface cut-outs

# List of model numbers

Model No.	Page	Model No.	Page	Model No.	Page	Model No.	Page	Model No.	Page	Model No.	Page
1002.600	31	1158.540	64	1521.010	15	1579.500	17, 24	2307.000	47	2433.000	50
1004.600	31	1158.560	64	1522.010	15	1580.000	50	2308.000	48	2435.000	46
1005.600	31	1158.900	64	1523.010	15	1581.000	62	2309.000	53	2439.000	47
1006.600	31	1158.910	64	1524.010	15	1581.100	63	2313.150	53	2449.000	49
1007.600	31	1158.920	64	1525.010	15	1582.000	62	2313.750	53	2450.000	46
1008.600	31	1158.930	64	1526.010	15	1583.010	26	2314.000	53	2451.000	46
1009.600	31	1158.940	64	1527.510	13	1583.510	22	2315.000	53	2452.000	46
1010.600	31	1158.950	64	1528.510	13	1583.520	22	2316.000	53	2454.000	46
1012.600	31	1180.500	28	1529.510	13	1584.010	26	2317.000	53	2455.000	46
1013.600	31	1213.500	29	1530.510	14	1584.510	22	2318.000	53	2460.000	47
1014.600	31	1260.500	29	1531.510	14	1584.520	22	2319.000	53	2460.650	47
1016.600	31	1280.500	29	1532.510	14	1585.010	26	2334.000	59	2461.000	47
1017.600	31	1338.500	28	1533.510	14	1585.510	22	2335.000	59	2462.000	47
1018.600	31	1339.500	27	1534.510	14	1585.520	22	2343.000	59	2463.000	47
1019.600	31	1350.500	28	1535.510	14	1586.510	22	2365.000	54	2464.000	47
1024.010	16	1360.500	28	1536.510	14	1586.520	22	2366.000	54	2465.000	47
1024.020	16	1376.500	28	1537.510	14	1589.510	13	2373.000	54	2466.000	47
1024.030	16	1380.500	27	1538.510	14	1590.000	50	2400.000	67	2467.000	46
1024.040	16	1400.600	33	1539.510	14	1591.000	13	2411.500	66	2468.000	46
1024.810	53	1423.600	32	1540.510	14	1592.000	13	2411.501	66	2469.000	46
1024.820	53	1432.600	32	1541.510	14	1594.000	50	2411.502	66	2482.200	69
1024.830	53	1434.600	32	1542.510	14	1605.510	23	2411.503	66	2487.000	55
1024.910	52	1444.600	32	1545.500	17	1605.520	23	2411.504	66	2503.000	50
1024.920	52	1446.600	32	1546.500	17	1606.510	23	2411.505	66	2503.010	50
1024.930	52	1448.600	32	1547.500	17	1606.520	23	2411.506	66	2505.200	51
1030.500	27	1449.600	32	1548.500	17	1609.510	25	2411.507	66	2505.500	51
1031.500	27	1453.600	32	1549.500	17	1611.510	24	2411.508	66	2507.100	58
1032.500	27	1454.600	32	1550.500	17	2026.200	68	2411.509	66	2507.400	58
1033.500	27	1466.600	33	1551.500	17	2027.200	68	2411.510	66	2507.500	58
1034.500	27	1467.600	33	1552.500	17	2034.200	68	2411.511	66	2508.000	50
1035.500	27	1468.600	33	1553.500	17	2092.200	55	2411.520	66	2508.010	50
1038.500	28	1469.600	33	1554.500	17	2092.300	55	2411.521	66	2509.000	50
1039.500	27	1479.600	33	1555.500	17	2092.500	55	2411.522	66	2514.500	49
1045.500	28	1480.600	33	1556.500	17	2094.200	55	2411.523	66	2514.600	49
1050.500	28	1482.000	55	1557.500	17	2094.300	55	2411.600	65	2514.800	49
1050.900	25	1483.000	51	1558.010	26	2094.500	55	2411.610	65	2521.000	48
1057.500	28	1490.000	46	1558.510	23	2203.010	20	2411.620	65	2531.000	48
1058.500	28	1500.510	13	1559.010	26	2203.020	20	2411.630	65	2532.000	48
1060.500	28	1501.510	13	1559.510	23	2203.030	20	2411.640	65	2533.000	47
1073.500	28	1502.510	13	1560.700	52	2203.110	21	2411.650	65	2534.000	48
1076.290	18	1503.510	13	1561.700	52	2203.120	21	2411.660	65	2534.100	48
1076.500	28	1504.510	13	1562.700	52	2203.160	21	2411.670	65	2534.500	48
1077.500	28	1505.510	13	1563.700	52	2203.200	21	2411.800	65	2545.000	48
1090.500	28	1506.510	13	1564.700	52	2203.210	21	2411.810	65	2546.000	48
1100.500	29	1507.510	13	1565.700	52	2203.220	21	2411.820	65	2547.000	48
1101.010	30	1508.510	13	1566.700	52	2203.230	21	2411.830	65	2548.000	48
1101.020	30	1509.510	13	1567.700	52	2203.240	21	2411.840	65	2549.000	48
1101.030	30	1510.280	18	1568.700	52	2203.250	21	2411.850	65	2560.000	61
1101.040	30	1510.510	13	1569.700	52	2203.260	21	2411.860	65	2561.000	61
1101.910	43	1511.510	13	1570.700	52	2203.270	21	2411.870	65	2561.100	63
1101.920	43	1512.510	13	1571.700	52	2203.300	21	2412.210	59	2561.500	62
1101.930	43	1513.510	13	1572.700	52	2203.310	21	2412.215	59	2562.000	61
1101.940	43	1514.510	13	1573.700	52	2203.400	21	2412.225	59	2562.100	63
1110.500	29	1515.510	13	1574.700	52	2203.500	19	2412.310	59	2562.500	62
1114.500	29	1516.510	13	1575.700	52	2203.600	19	2412.316	59	2563.000	61
1130.500	29	1517.510	13	1576.700	52	2207.010	20	2412.325	59	2563.100	63
1158.500	64	1518.510	13	1577.500	17, 24	2207.020	20	2431.000	50	2563.150	20
1158.530	64	1519.510	13	1578.500	17, 24	2207.030	20	2432.000	50	2563.500	62

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2565.000	59	2762.000	45	4315.300	58	5114.500	34	9112.350	10	9518.000	5
2565.100	59	2763.000	45	4315.310	58	5115.500	34	9112.700	10	9518.100	5
2565.110	59	2780.000	43	4315.500	58	5116.500	34	9113.210	9	9519.000	5
2565.120	59	2781.000	43	4315.510	58	5117.500	34	9113.350	10	9519.100	5
2566.000	59	2782.000	43	4316.000	60	5118.500	34	9113.700	10	9520.000	5
2567.000	59	2784.000	43	4317.000	60	5119.500	34	9114.210	9	9520.100	5
2568.000	59	2785.000	43	4318.000	60	5120.500	34	9114.700	10	9521.000	5
2569.000	59	2786.000	43	4319.090	67	5121.500	34	9116.210	9	9521.050	6
2571.000	48	2787.000	43	4319.120	67	5122.500	34	9116.350	10	9521.100	5
2572.000	47	2788.000	43	4319.160	67	5123.500	34	9116.700	10	9522.000	5
2573.000	60	2789.000	43	4319.200	67	6514.100	69	9117.210	9	9522.100	5
2574.000	55	2796.000	43	4532.000	54	6514.110	69	9117.350	10	9523.000	5
2575.000	47	2801.200	41	4595.000	51	7077.000	36	9117.700	10	9523.100	5
2576.000	47	2802.200	41	5001.050	38	7078.000	36	9118.210	9	9524.000	5
2583.000	51	2816.200	41	5001.051	38	7097.000	36	9118.350	10	9524.100	5
2584.000	51	2818.200	41	5001.052	38	7097.220	36	9118.700	10	9530.000	4
2589.000	67	2826.200	41	5001.053	38	7097.260	36	9119.210	9	9531.000	4
2590.000	67	2828.200	41	5001.054	38	7097.300	36	9121.122	11	9540.000	7
2591.000	67	2841.200	41	5001.060	37	7097.340	36	9121.160	11	9541.000	7
2592.000	67	2842.200	41	5001.061	37	7098.000	36	9121.230	11	9542.000	7
2593.000	67	2851.200	41	5001.062	37	7098.100	36	9122.424	11	9543.000	7
2594.000	67	2852.200	41	5001.063	37	7099.000	36	9123.000	11	9544.000	7
2595.000	67	2863.200	41	5001.064	37	8800.060	59	9123.100	11	9545.000	7
2596.000	67	2864.200	41	5001.080	36	8800.080	59	9266.000	51	9546.000	7
2597.000	68	2891.200	41	5001.081	36	8800.100	59	9500.000	4	9547.000	7
2730.000	45	2892.200	41	5001.082	36	8800.120	59	9500.050	6	9548.000	7
2731.000	45	2898.160	66	5001.083	36	8802.060	60	9501.000	4	9549.000	7
2732.000	45	2898.200	66	5001.100	36	8802.065	61	9502.000	4	9550.000	7
2733.000	45	2898.250	66	5001.110	36	8802.080	60	9503.000	4	9551.000	7
2734.000	45	2898.320	66	5001.120	36	8802.085	61	9504.000	4	9552.000	7
2735.250	44	2899.200	66	5001.130	36	8802.100	60	9504.100	4	9553.000	7
2735.500	44	2899.250	66	5001.140	36	8802.105	61	9505.000	4	9560.000	8
2735.509	44	2899.320	66	5001.150	36	8802.120	60	9506.000	4	9561.000	8
2735.510	44	2899.400	66	5001.160	36	8802.125	61	9506.100	4	9562.000	8
2735.520	44	2901.200	41	5001.210	35	9100.210	9	9507.000	4	9563.000	8
2735.530	44	2902.200	41	5001.211	35	9101.210	9	9507.100	4	9564.000	8
2735.540	44	2911.200	41	5001.212	35	9102.210	9	9508.000	4	9565.000	8
2735.560	44	2912.200	41	5001.213	35	9103.210	9	9508.050	6	9566.000	8
2735.570	44	2921.200	41	5001.214	35	9104.210	9	9508.100	4	9567.000	8
2735.580	44	2922.200	41	5001.215	35	9105.150	10	9509.000	4	9568.000	8
2735.590	44	2961.200	41	5001.216	35	9105.210	9	9509.100	4	9580.000	7
2736.500	44	2962.200	41	5001.217	35	9105.700	10	9510.000	4	9581.000	7
2736.509	44	4103.350	57	5001.218	35	9106.150	10	9510.100	4	9582.000	5
2736.510	44	4103.600	57	5001.219	35	9106.210	9	9511.000	4	9583.000	8
2736.520	44	4127.000	58	5001.220	35	9106.700	10	9511.100	4	9765.120	39
2736.530	44	4138.140	56	5001.221	35	9107.150	10	9512.000	4	9765.125	39
2736.540	44	4138.180	56	5001.222	35	9107.210	9	9512.100	4	9791.015	39
2736.580	44	4138.300	56	5001.223	35	9107.700	10	9513.000	4	9791.025	39
2736.590	44	4139.140	56	5001.224	35	9108.210	9	9513.100	4	9791.035	39
2740.000	45	4139.180	56	5001.225	35	9108.350	10	9514.000	5	9791.045	39
2741.000	45	4139.300	56	5001.226	35	9108.700	10	9514.050	6	9791.145	39
2742.000	45	4155.000	57	5001.227	35	9110.210	9	9514.100	5		
2743.000	45	4155.100	57	5001.228	35	9110.350	10	9515.000	5		
2744.000	45	4155.500	57	5001.229	35	9110.700	10	9515.100	5		
2745.000	45	4311.000	60	5110.500	34	9111.210	9	9516.000	5		
2746.000	45	4315.100	58	5111.500	34	9111.350	10	9516.100	5		
2760.000	45	4315.110	58	5112.500	34	9111.700	10	9517.000	5		

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Material: sheet steel, stainless steel, aluminium and plastic  
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