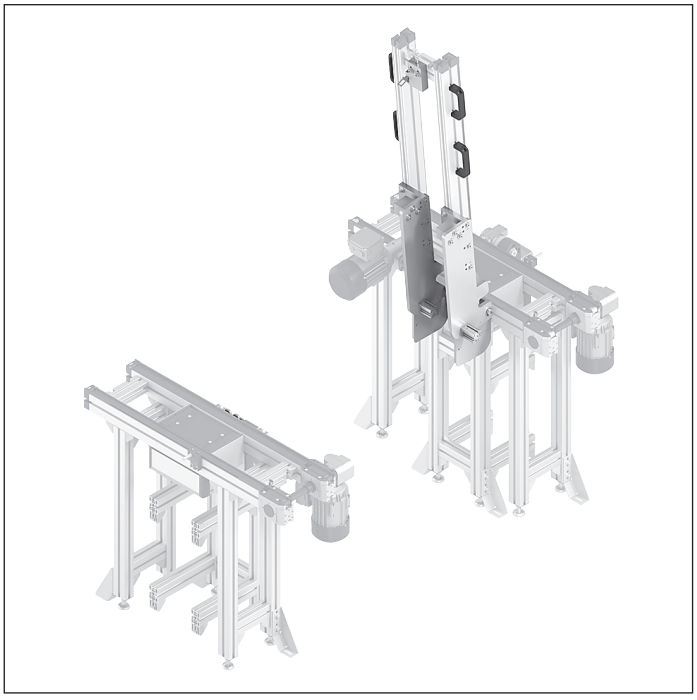
LG 2/H lift gate



- Can be used for BS 2, BS 2/C-100, BS 2/R-300 belt sections and for combinations of section ST 2/C-H (ST 2/R-H), drive AS 2/C-100 (AS 2/R-300) and return unit UM 2/C-60 (UM 2/R-60)
- From width b = 240 mm up to b = 1200 mm
- For passage width (A) 600 ... 1800 mm
- In open position (85°), locked
- Mechanical unlocking, optionally with pneumatic unlocking (PN kit)
- Safety switch in off position
- Can be used as transverse section

Note:

- The length of the belt section (l_{BS}) is the passage width plus 500 mm
- The total required space of the LG 2/H is the passage width plus 535 mm

Accessories

Required accessories

- 1x BS 2 belt section, see p. 3-6, or conveyor unit
- 2x SZ 2 leg set, see p. 6-6
- 2x 4 45x60 strut profile, see p. 3-232
- 16x 45x45 bracket, see p. 3-232
- 2x foundation bracket, see p. 3-231 and 6-28

Recommended accessories

- PN kit, see p. 3-232

Delivery notes

Scope of delivery

- Mounting kit with gas pressure springs, attachment kit, locking and safety switch

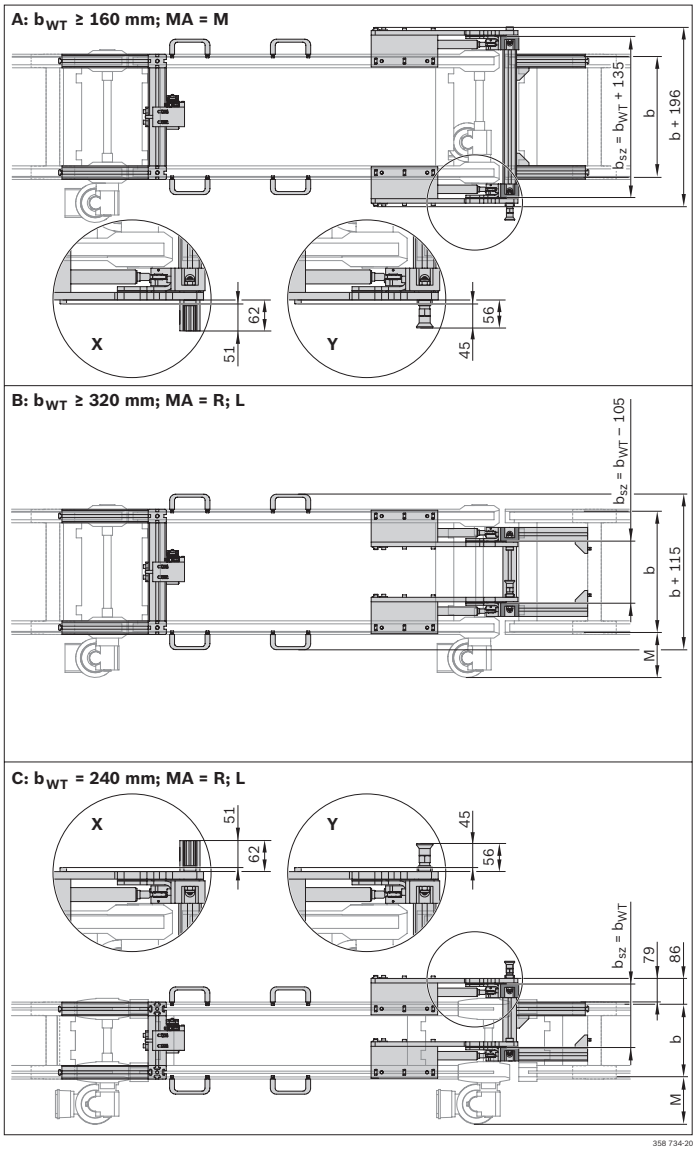
Condition on delivery

- Not assembled

The LG 2/H lift gate provides access or passage to the inner spaces of a belt section (BS). Manually tilting the belt section can open it from 0° to 85° or close it from 85° to 0°. The effort required to do this is reduced with the aid of a gas pressure spring.

Overall width of the different lift gate assembly variants

Lift gate interfering contours



The following applies to the BS 2: When MA = M and b = 160 mm, the max. section load is only 30 kg

The total width results from the belt section width (b), the motor width (M) and other interfering contours (e.g., locking bolts for unlocking, etc.).
The requirements for other interfering contours are specified in the dimension drawings on the left.
In addition, the workpiece pallet width need not be taken into account.

Overall width/obtruding parts

	Belt section	M (mm)
B	BS 2	154.0
	BS 2/C-100	158.5
	BS 2/R-300	158.5
	ST 2/C-H	158.5
	ST 2/R-H	158.5
C	BS 2	154.0
	BS 2/C-100	158.5
	BS 2/R-300	158.5
	ST 2/C-H	158.5
	ST 2/R-H	158.5

Passage width A
If both plates are mounted outside of the belt section, the minimum width of the workpiece pallet is b_{WT} = 240 mm.

Passage width B
If both plates are mounted in the center of the belt section, the minimum width of the workpiece pallet is b_{WT} = 320 mm.
For mounting a locking bolt (not included) or mounting the PN locking mechanism b_{WT} = 320 mm.

Passage width C
If one plate is mounted in outside or inside of the belt section, the minimum width of the workpiece pallet is b_{WT} = 240 mm.

Selection of the LG 2/H mounting kit for the belt section type

- 1. Select the appropriate table for your belt section type.
- 2. Determine the LG 2/H mounting kit reference number, which can be worked out from the workpiece pallet width b_{WT} and the feed width (A = l_{BS} – 500)
- 3. Use this reference number from the "LG 2/H mounting kit" table to identify the correct mounting kit (see p. 4)

Note:

- The length of the belt section (l_{BS}) is the passage width plus 500 mm
- The total required space of the LG 2/H is the passage width plus 535 mm

BS 2

Passage width A	Width of workpiece pallet b_{WT}								
	160	240	320	400	480	640	800	1040	1200
600	1	1	1	1	1	1	1	1	1
700	1	1	1	1	1	1	1	1	1
800	1	1	1	1	1	1	1	1	1
900	1	1	1	1	1	1	1	1	1
1000	1	1	1	1	1	1	2	2	2
1100	1	1	1	1	1	2	2	2	2
1200	1	1	1	2	2	2	2	2	2
1300	2	2	2	2	2	2	2	2	2
1400	2	2	2	2	2	2	2	2	2
1500	2	2	2	2	2	2	2	2	2
1600	2	2	2	2	2	2	2	3	3
1700	2	2	2	2	2	3	3	3	3
1800	2	2	2	3	3	3	3	3	3

BS 2 C-100

Passage width A	Width of workpiece pallet b_{WT}								
	160	240	320	400	480	640	800	1040	1200
600	x*	1	1	2	2	2	2	2	2
700	x*	2	2	2	2	2	2	2	2
800	x*	2	2	2	2	2	2	2	2
900	x*	2	2	2	2	2	3	3	3
1000	x*	2	2	2	3	3	3	3	3
1100	x*	3	3	3	3	3	3	3	3
1200	x*	3	3	3	3	3	3	3	3
1300	x*	3	3	3	3	3	4	4	4
1400	x*	3	3	3	4	4	4	5	5
1500	x*	4	4	4	4	5	5	5	5
1600	x*	4	4	4	5	5	5	5	5
1700	x*	5	5	5	5	5	5	5	5
1800	x*	5	5	5	5	5	6	6	6

x* Mounting not possible

BS 2 R-300 ks

Passage width A	Width of workpiece pallet b_{WT}								
	160	240	320	400	480	640	800	1040	1200
600	x*	2	2	2	2	2	2	3	3
700	x*	2	2	2	2	2	3	3	3
800	x*	2	2	2	2	3	3	3	3
900	x*	2	2	2	3	3	3	3	3
1000	x*	3	3	3	3	3	3	4	4
1100	x*	3	3	3	3	3	4	4	4
1200	x*	3	3	3	3	4	4	5	5
1300	x*	4	4	4	4	4	5	5	5
1400	x*	4	4	4	4	5	5	5	5
1500	x*	4	4	5	5	5	5	5	5
1600	x*	5	5	5	5	5	5	6	6
1700	x*	5	5	5	5	6	6	6	6
1800	x*	5	6	6	6	6	6	6	6

x* Mounting not possible

BS 2 R-300 st

Passage width A	Width of workpiece pallet b_{WT}								
	160	240	320	400	480	640	800	1040	1200
600	x*	2	2	2	2	2	3	3	3
700	x*	2	2	2	2	3	3	3	3
800	x*	3	3	3	3	3	3	3	3
900	x*	3	3	3	3	3	3	4	4
1000	x*	3	3	3	3	3	4	4	4
1100	x*	3	3	3	4	4	4	5	5
1200	x*	4	4	4	4	4	5	5	5
1300	x*	4	4	4	5	5	5	5	5
1400	x*	5	5	5	5	5	5	5	5
1500	x*	5	5	5	5	5	5	6	6
1600	x*	5	5	5	5	5	6	6	6
1700	x*	5	6	6	6	6	6	6	6
1800	x*	6	6	6	6	6	6	6	6

x* Mounting not possible

Conveyor unit
ST 2/C-H + AS 2/C-100 + UM 2/C-60

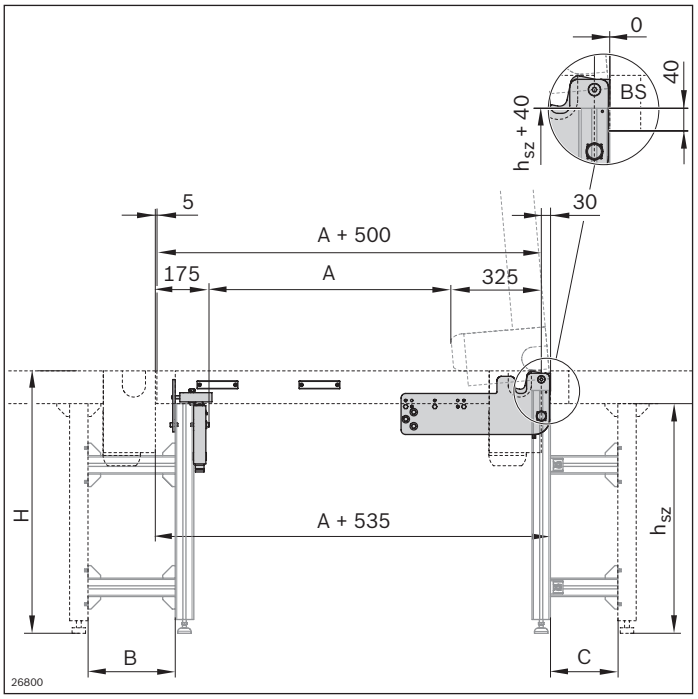
Passage width A	Width of workpiece pallet b_{WT}								
	160	240	320	400	480	640	800	1040	1200
600	x*	2	2	3	3	3	3	3	3
700	x*	3	3	3	3	3	3	3	4
800	x*	3	3	3	3	3	4	4	4
900	x*	3	3	3	4	4	4	4	4
1000	x*	4	4	4	4	4	5	5	5
1100	x*	4	4	5	5	5	5	5	5
1200	x*	5	5	5	5	5	5	5	5
1300	x*	5	5	5	5	5	5	5	6
1400	x*	5	5	5	5	6	6	6	6
1500	x*	5	6	6	6	6	6	6	6
1600	x*	6	6	6	6	6	6	6	7
1700	x*	6	6	6	6	7	7	7	7
1800	x*	6	6	6	6	7	7	7	7

x* Mounting not possible

Conveyor unit
ST 2/R-H + AS 2/R-300 + UM 2/R-60 (st)

Passage width A	Width of workpiece pallet b_{WT}								
	160	240	320	400	480	640	800	1040	1200
600	x*	2	3	3	3	3	3	3	3
700	x*	3	3	3	3	3	3	4	4
800	x*	3	3	3	3	4	4	4	4
900	x*	3	3	4	4	4	4	4	4
1000	x*	4	4	4	4	5	5	5	5
1100	x*	4	5	5	5	5	5	5	5
1200	x*	5	5	5	5	5	5	5	5
1300	x*	5	5	5	5	5	5	6	6
1400	x*	5	5	5	6	6	6	6	6
1500	x*	6	6	6	6	6	6	6	6
1600	x*	6	6	6	6	6	6	7	7
1700	x*	6	6	6	7	7	7	7	7
1800	x*	6	6	6	7	7	7	7	7

x* Mounting not possible



LG 2/H mounting kit

- Determine the LG 2/H mounting kit reference number using the tables and the description “Selection of the LG 2/H mounting kit for the belt section type” on page 3-228f.
  The reference number is also the mounting kit number. For example, if the reference number is 2, the mounting kit number is also 2.

Minimum length of the leg connection:

Minimum length B/C (mm)	Connection
145*)	BS 2 return unit
175*)	UM 2/C-60, UM 2/R-60
245	BS 2 drive
285	AS 2/C-100, AS 2/C-250, AS 2/R-300, AS 2/R-700, UM 2/C-170, UM 2/R-170
395	AS 2/C-400, AS 2/C-700, AS 2/R-1200, AS 2/R-220

*) Optimal leg connection for ideal support: 220 mm

Required accessories:

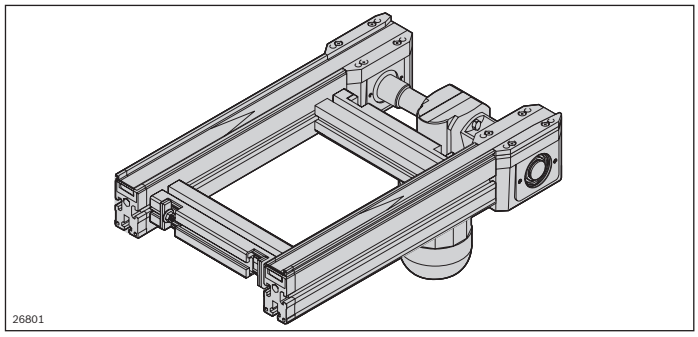
- 1x BS 2 belt section, see p. 3-6, or conveyor unit
- 2x SZ 2 leg set, see p. 6-6
- 2x 4 45x60 strut profile, see p. 3-232
- 16x 45x45 bracket, see p. 3-232
- 2x foundation bracket, see p. 3-231

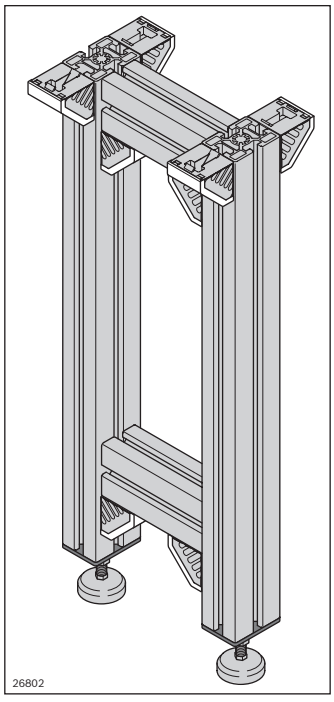
Recommended accessories:

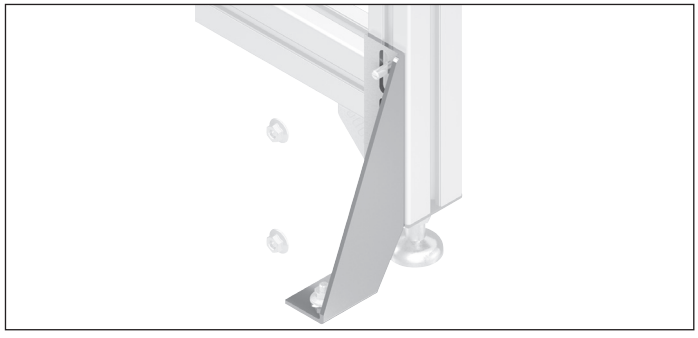
- PN kit for unlocking in the top end position, see p. 3-232

Ordering information

LG 2/H mounting kit	Packaging unit	Material number
1	1	**3842549511**
2	1	**3842549512**
3	1	**3842549513**
4	1	**3842549514**
5	1	**3842549515**
6	1	**3842549516**
7	1	**3842549517**







Belt section of l = A + 500

Select the length (l) of the belt section (BS).

l = A + 500 mm, according to the ambient system:

- BS 2, see p 3-6
- BS 2/C-100, see p. 3-55
- BS 2/R-300 plastic chain and steel chain, see p. 3-122
- Conveyor unit: ST 2/R-H (see p. 3-161), AS 2/R-300 (see p. 3-136), UM 2/R-60 (see p. 3-148)
- Conveyor unit: ST 2/C-H (see p. 3-91), AS 2/C-100 (see p. 3-68), UM 2/C-60 (see p. 3-80)

To construct a lift gate, you need:

- One SZ 2 leg set (3842996320) with AO = profile height of a BS 2
- One SZ 2 leg set with parameters, see table below: AO = 60 mm and leg set width b_{SZ}

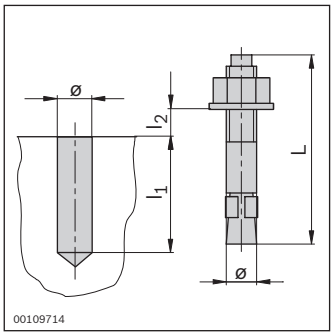
BS 2	SZ 2[1] leg sets	Material number
A b ≥ 160, MA = M	b_{SZ}[3] = b[4] + 120, AO[2] = 60 mm	**3842996320**
B b ≥ 320, MA = L; R	b_{SZ}[3] = b[4] – 120, AO[2] = 60 mm	**3842996320**
C b = 240 MA = L; R	b = b[4] AO[2] = 60 mm	**3842996320**

[1] See also p. 6-7
[2] AO = installation location
[3] b_{SZ} = width b for leg
[4] b = width of belt section
See also p. 3-227:
For **A**: If both plates are mounted outside of the belt section
For **B**: If both plates are mounted in the middle of the belt section
For **C**: If one plate is mounted outside or inside the belt section

Ordering information

Product designation	Packaging unit	Material number
Foundation bracket	20	3842146848

See also p. 6-28



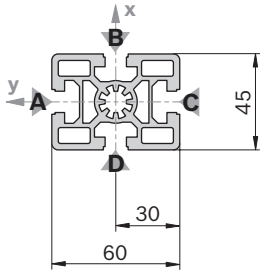
Ordering information

Product designation	Packaging unit	Material number
Floor dowel	100	3842526560

See also p. 6-30

45x60

A = 11,0 cm2
I_x = 37,2 cm4
I_y = 22,7 cm4
W_x = 12,4 cm3
W_y = 10,1 cm3
m = 3,0 kg/m



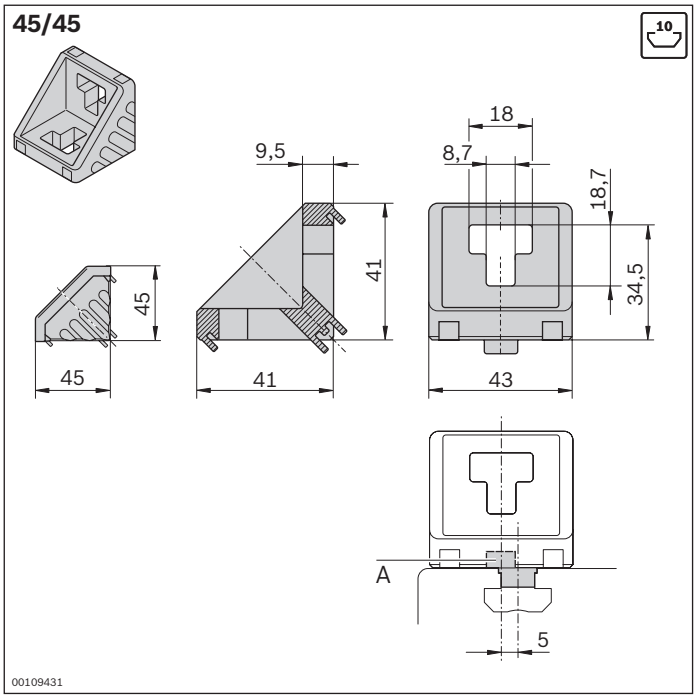
19433

Ordering information

Material number	3842990570
l (mm)	15 ... 5600
Packaging unit	1

Note: Determine the required length/number of strut profiles up to the next leg set according to your needs.

45/45



00109431

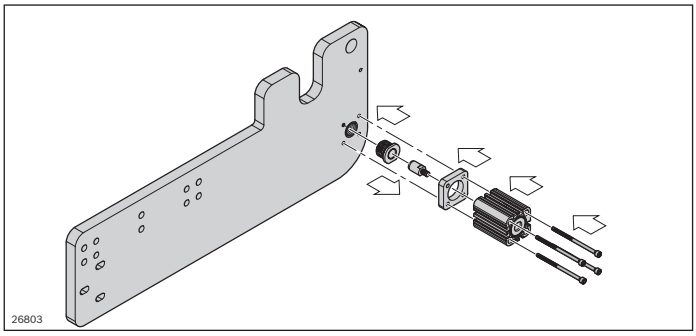
Ordering information

Product designation	Packaging unit	Material number
45/45 bracket set	1	3842523561

Scope of delivery: Incl. fastening material

Technical data

Material number	3842523561
Features	
ESD	Yes
Dimensions	
Groove	10/10



26803

Ordering information

Product designation	Packaging unit	Material number
PN kit	1	3842549509

Safety switch

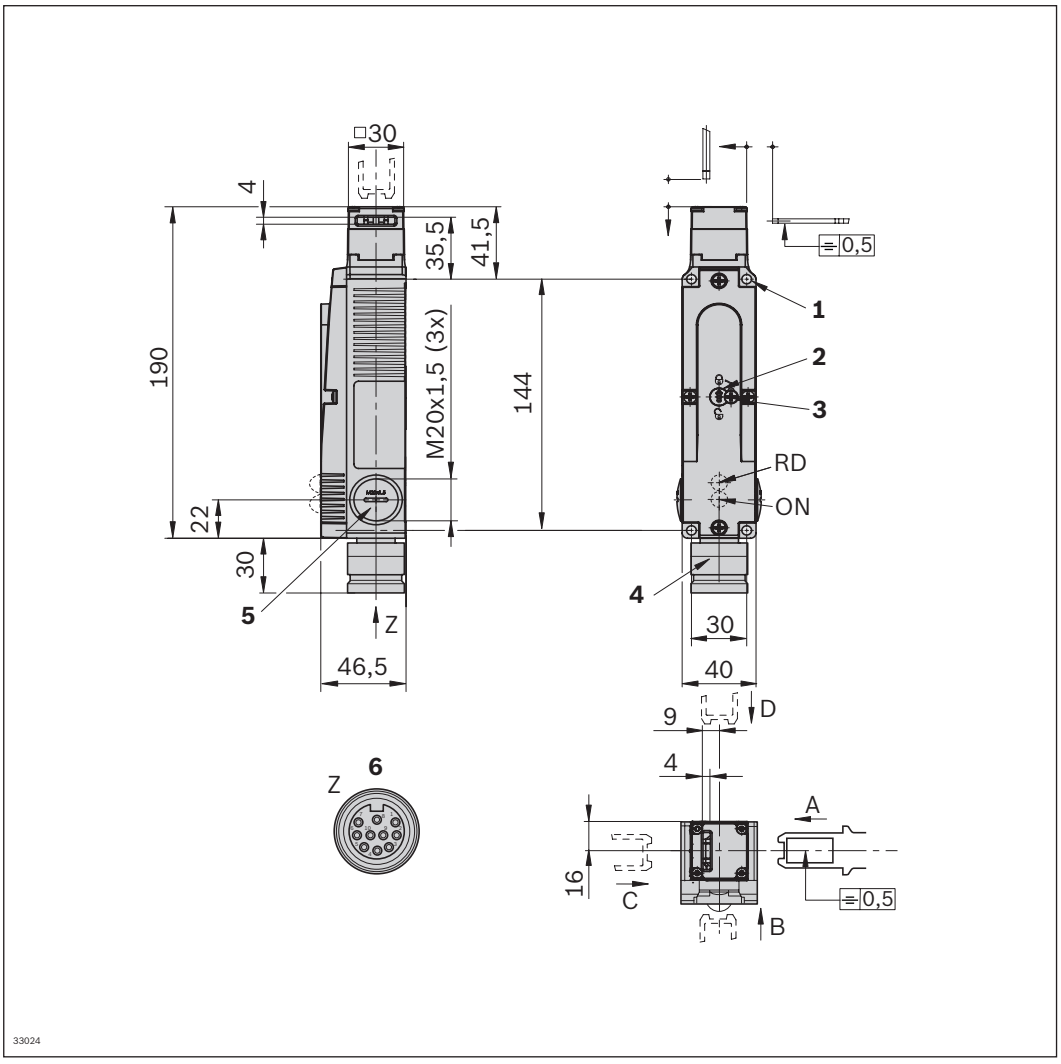
- Connection of safety switch: 10-pin socket, cable with plug not included
- Activator locking type: inserted

Technical data

Features			
Safety switch			STA3A-2131A024L024BHA10C2090
IP rating			IP 65
Material specification			Housing: Die-cast aluminum alloy
Additional information			
Actuation/extraction/retention force		N	35; 30; 20
Max. closing force		N	3000
Closing force Fzh as per testing principle GS-ET-19		N	2300
Actuation frequency		1/h	1200
Switching functions*			1 Mechanically locked. 2 Unlocked by applying a voltage. 3 Opened when the activator is pulled.
Additional information			
Solenoid operating voltage	10%	AC/DC V	24
Operating time	ED	%	100
Connection power		W	8
Connection type			BHA10 integrated plug (9-pin + PE)
Approvals			CE, UL, CCC

* See also “Switching function” on page 3-235

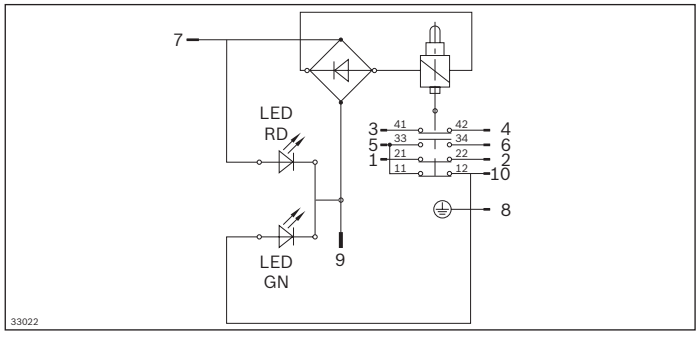
Dimensions



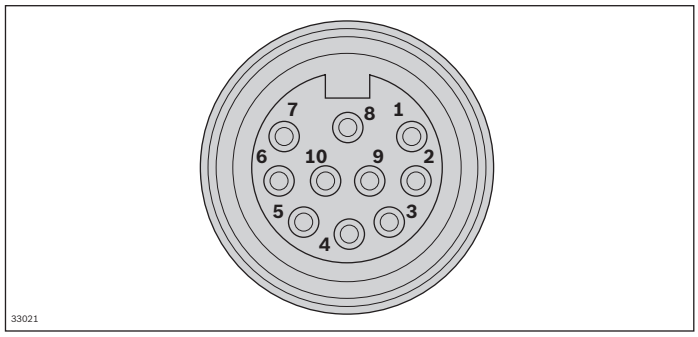
Note on direction of actuation:
After undoing the fastening screws, you can switch the fastening knob to the desired direction of approach.

1 d = 5.3 (4x) for M5x35 mm ISO 1207/100 47
2 Auxiliary release
3 Locking screw
4 Integrated plug
5 M20x1.5 screw plug (2x)
6 BHA10 integrated plug, not aligned

Circuit diagrams

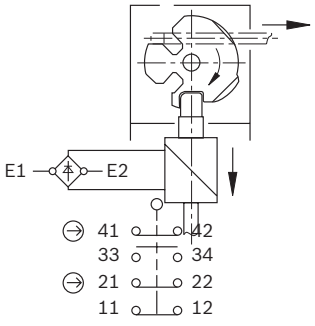
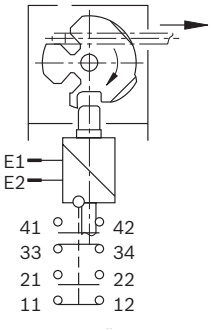
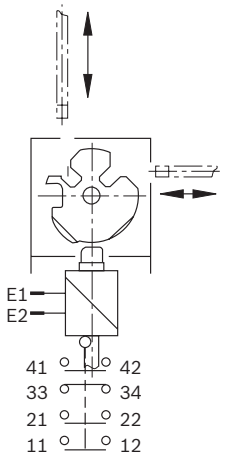


Plug assignment; MR10 socket plug, 10-pin



1 OG	6 OG/BK
2 BU	7 RD
3 WH/BK	8 GN/YE
4 RD/BK	9 BK
5 GN/BL	10 WH

Switching function

Activator	**Inserted**	**Inserted**	**Pulled**
Switch position	**Locked**	**Unlocked**	**Open**
762	1	2	3
Contact element 3NC* + 1NO			

* 2x positively driven NC contacts + 1x delayed NC contact as a door monitoring contact