



Mounting systems for industrial sensors

Universal bar clamp systems, mounting brackets,
protective devices, alignment brackets and
mountings for cylinder sensors

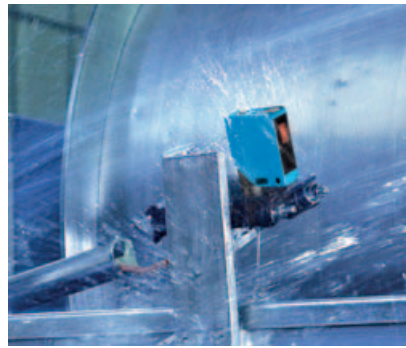
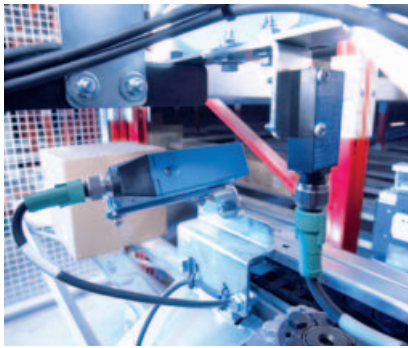
Creating a firm hold and keeping the elements out –
mounting and protection for industrial sensors



Sensors

Mounting systems





A winning combination

Worldwide, SICK is a renowned specialist in the field of industrial sensors. Accurate integration of these sensors into industrial installations requires mounting concepts precisely matched to SICK sensors. Sensors and mounting systems from SICK – a winning combination.

From the electronics industry to heavy industry

Different applications mean different requirements from sensors and accessories. Whether fine adjustment on precision machines or protection from extreme ambient conditions, e.g. in the steel industry, SICK offers appropriate concepts for assembly, alignment and protection of industrial SICK sensors.

Efficiency and functionality

SICK sensors ensure reliable plant and machine processes worldwide, in many different industries and applications. This requires clever assembly solutions minimising installation requirements for sensors and, simultaneously, ensuring flexibility and operational safety. Mounting systems from SICK – efficient and functional.

**Legend
Mounting Elements**

- Universal bar clamp system BEF-...
- Mounting brackets BEF-...
- Special accessories BEF-...
- Protective devices
- Clamping and alignment brackets BEF-...
- Mounting for cylinder sensors BEF-...

**Legend
Mounting Elements**

- Universal bar clamp system BEF-...
- Mounting brackets BEF-...
- Special accessories BEF-...
- Protective devices
- Clamping and alignment brackets BEF-...
- Mounting for cylinder sensors BEF-...

Universal bar clamp systems
Universalklemmsystem

Protective devices
Schutzvorrichtungen

Mounting brackets
Befestigungstechnik

Mounting for cylinder sensors
Halterungen für Zylindersensoren

Clamping and alignment brackets
Klemm- und Ausrichthalterungen

Special accessories
Sonderzubehör

Sensor Technology

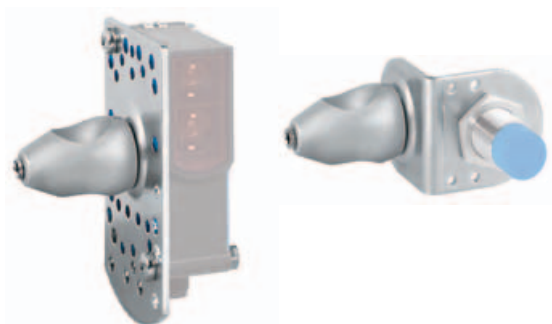
Mounting Systems

A clever turn

The SICK turntable shows, at a glance, which mounting option is needed for which sensor. Simply turn the required sensor into the punched window and, using the colour coding, identify the mounting option and catalogue page. The catalogue page contains the dimensional drawings, scope of delivery and further detailed information.

SICK mountings and protective devices matched to SICK sensors: the perfect team for diverse applications in many different industries

UNIVERSAL BAR CLAMP SYSTEMS for cuboid/round sensors and reflectors



The most flexible solution where sensors need to be fixed by means of a bar. Universal bar clamp systems offer secure fixing and variable alignment options.

MOUNTING BRACKETS for cuboid/round sensors and light grids



The versatile alternative for all types of sensors and light grids. Floor or wall mounted, articulated arm or rotary bracket: mounting accessories from SICK solve almost any problem.

PROTECTIVE DEVICES for cuboid sensors



When it gets difficult, SICK protective devices offer optimum protection for optical sensors. Protective housings with cable protection, dust shields with air purging or weather hoods protect SICK sensors from aggressive environments and mechanical damage.

MOUNTINGS FOR CYLINDER SENSORS



Adapters for cylinder sensors from SICK ensure perfect interaction of sensors and pneumatic cylinders. Whether round body, profile or tie-rod cylinders, SICK offers the matching sensor mounting accessories, from clamps to straps.



CLAMPING AND ALIGNMENT BRACKETS

for cuboid/round sensors



Flexible alignment, quick mounting, thanks to ball joints, spring bearings and clever fixing components, SICK sensors are always adjusted quickly, accurately and safely.

SPECIAL ACCESSORIES

for cuboid sensors



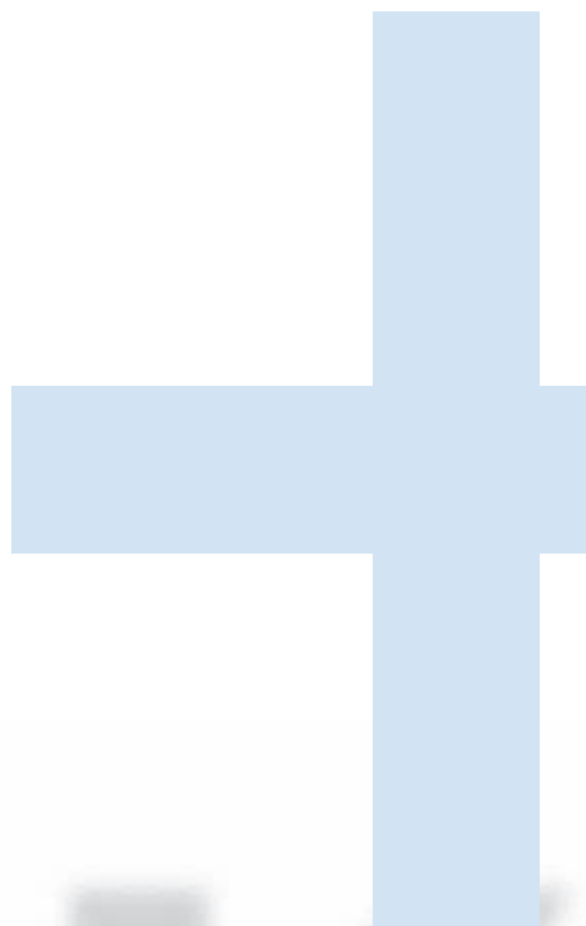
Lens masks, cooling plates and polarisation filters support SICK sensors in critical applications, making an important contribution to system reliability.

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Clamping and alignment brackets	page 50
Protective devices	page 62
Mountings for cylinder sensors	page 70
Special accessories	page 80

A clever turn

TYPES- OVERVIEW



SICK

Universal bar clamp systems – the most flexible solution

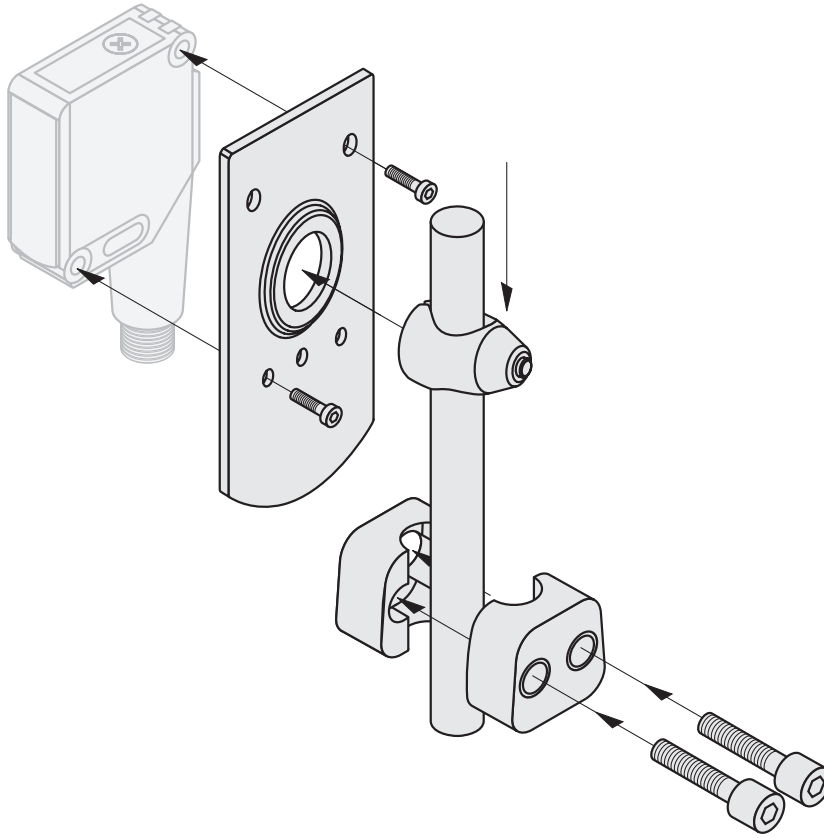




With the SICK universal bar clamp system, equipping industrial installations with SICK sensors is easier than ever before! The large selection of sensor mounting plates, in conjunction with different mounting rods, offers maximum flexibility, secure fixing and versatile alignment options for almost any application. At SICK, you will find everything you need for this!

UNIVERSAL BAR CLAMP SYSTEMS →

Principle of operation

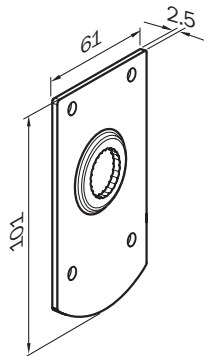


BEF-KHS-A01

Universal bar clamp system

Plate A for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	
incl. universal bar clamp and mounting material	

Order information

Type	Order no.
BEF-KHS-A01	2022458

W23-2

W27-3

DS30



BEF-KHS-B01

Universal bar clamp system

Plate B for universal bar clamp

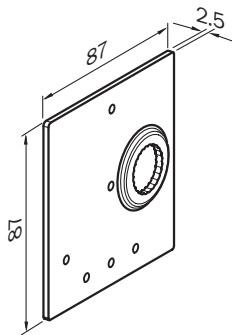
Dimensional drawing

Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	
incl. universal bar clamp and mounting material	

Order information

Type	Order no.
BEF-KHS-B01	2022459



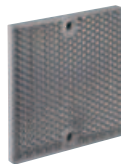
P250

PL40A

PL50A

PL80A

C110A



BEF-KHS-C01

Universal bar clamp system

Plate C for universal bar clamp

Dimensional drawing

Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	
incl. universal bar clamp and mounting material	

Order information

Type	Order no.
BEF-KHS-C01	2022460



W14-2

W18-3

DT10

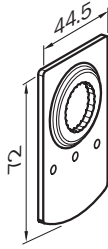


BEF-KHS-D01

Universal bar clamp system

Plate D for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

Type	Order no.
BEF-KHS-D01	2022461

W11-2

W12-3

UC12

KT2

DT2

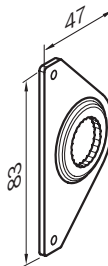


BEF-KHS-E01

Universal bar clamp system

Plate E for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

Type	Order no.
BEF-KHS-E01	2022462

W30

W32

W34

W36

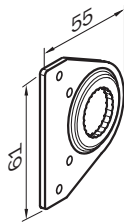


BEF-KHS-F01

Universal bar clamp system

Plate F for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

Type	Order no.
BEF-KHS-F01	2022463

W260

W280

PL20A

P250

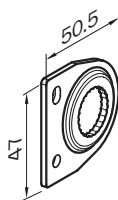


BEF-KHS-G01

Universal bar clamp system

Plate G for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

Type	Order no.
BEF-KHS-G01	2022464

W24-2

LUT3

KT5-2

KT8

KT10-2

CS8

CSL1



BEF-KHS-H01

Universal bar clamp system

Plate H for universal bar clamp

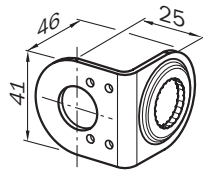
Dimensional drawing

Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	
incl. universal bar clamp and mounting material	

Order information

Type	Order no.
BEF-KHS-H01	2022465



MH15



V18



W4-3



IM18



MM18



CM18



UC4



UM18



KT1M

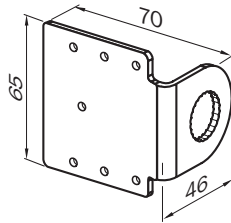


BEF-KHS-J01

Universal bar clamp system

Plate J for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

Type	Order no.
BEF-KHS-J01	2022719

PL20A

PL40A

PL50A

P250



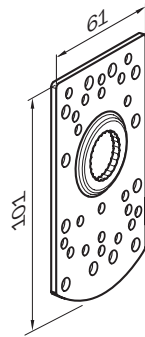
Universal bar clamp systems

BEF-KHS-K01

Universal bar clamp system

Plate K for universal bar clamp

Dimensional drawing



Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	
incl. universal bar clamp and mounting material	

Order information

Type	Order no.
BEF-KHS-K01	2022718

W11-2	W12-3	W14-2	W18-3	W23-2	W24-2	W27-3	W30
W32	W34	W36	PL50A	PL80A	P250	UC12	LUT3
KT2	KT5-2	KT8	KT10-2	CS8	CSL1	DT2	DT10
DS30	DS40	DT60	DS60				

BEF-KHS-L01

Universal bar clamp system

Plate L for universal bar clamp

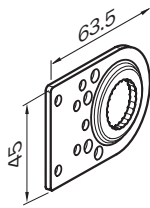
Dimensional drawing

Technical data

Material	
Plate	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	
incl. universal bar clamp and mounting material	

Order information

Type	Order no.
BEF-KHS-L01	2023057



W8 W100 W140-2 W150 W160 W9-2 W250 P250



LUT2

KT3

CSM1



BEF-SG-W12-3

Universal bar clamp system



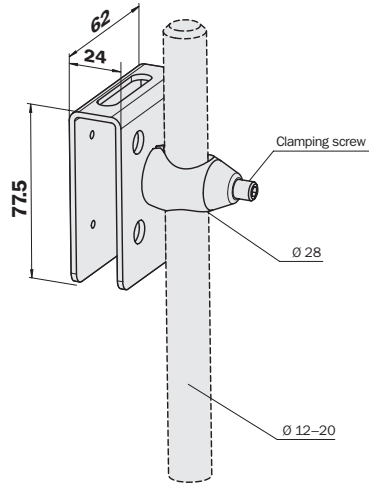
W11-2

W12-3



Protection hood for universal bar clamp

Dimensional drawing



Technical data

Material	
Protection hood	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

Type	Order no.
BEF-SG-W12-3	2045175

BEF-SG-W27

Universal bar clamp system



W14-2

W18-3

W23-2

W27-3

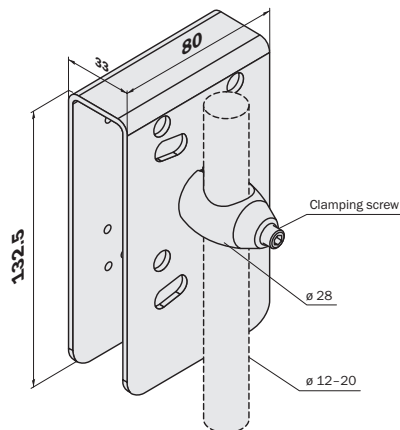
DT10

DS30



Protection hood for universal bar clamp

Dimensional drawing



Technical data

Material	
Protection hood	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal bar clamp and mounting material

Order information

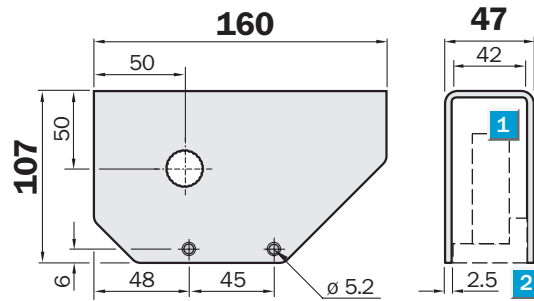
Type	Order no.
BEF-SG-W27	2039601

OBW-KHS-M01

Universal bar clamp system

Weather protection hood for universal bar clamp

Dimensional drawing



- 1 Sensor
- 2 Base holder with mounting material included with delivery

Technical data

Material	Steel, galvanized
Delivery	incl. mounting material

Order information

Type	Order no.
OBW-KHS-M01	2023240

W23-2

W24-2

W27-3

W34

W260

DS30

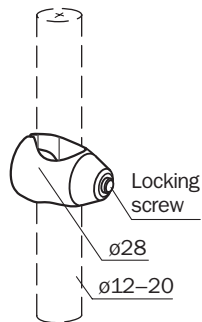


BEF-KHS-KH1

Universal bar clamp system

Universal bar clamp

Dimensional drawing



Technical data

Material	Zinc, die-cast
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Order information

Type	Order no.
BEF-KHS-KH1	2022726



BEF-MS12G-x

Universal bar clamp system

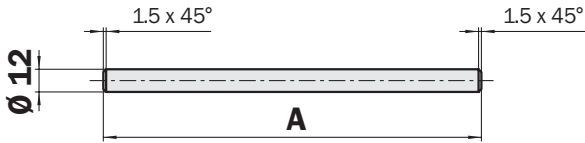
Mounting rod straight

Dimensional drawing

Technical data

Material

Steel, galvanised



Order information

Type	Order no.	Size A
BEF-MS12G-A	4056054	200 mm
BEF-MS12G-B	4056055	300 mm

BEF-MS12L-x

Universal bar clamp system

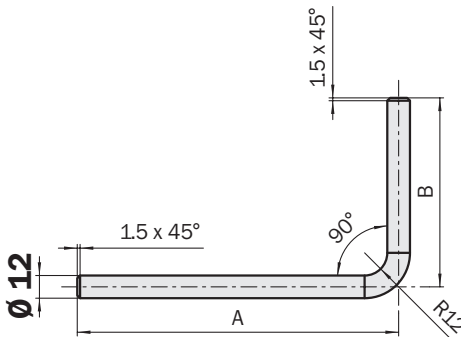
Mounting rod L-shaped

Dimensional drawing

Technical data

Material

Steel, galvanised



Order information

Type	Order no.	Size A	Size B
BEF-MS12L-A	4056052	150 mm	150 mm
BEF-MS12L-B	4056053	250 mm	250 mm

BEF-MS12Z-x

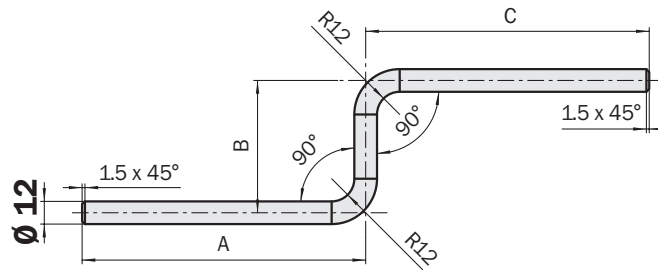
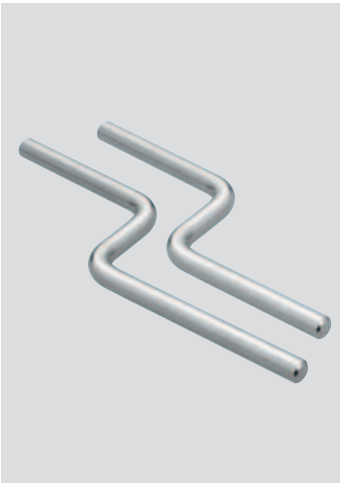
Universal bar clamp system

Mounting rod Z-shaped

Dimensional drawing

Technical data

Material Steel, galvanised



Order information

Type	Order no.	Size A	Size B	Size C
BEF-MS12Z-A	4056056	150 mm	70 mm	150 mm
BEF-MS12Z-B	4056057	150 mm	70 mm	250 mm

BEF-RMC-D12

Universal bar clamp system

Rod mounting clamp

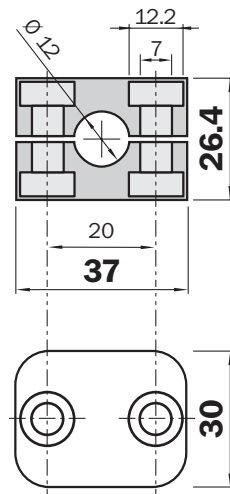
Dimensional drawing

Technical data

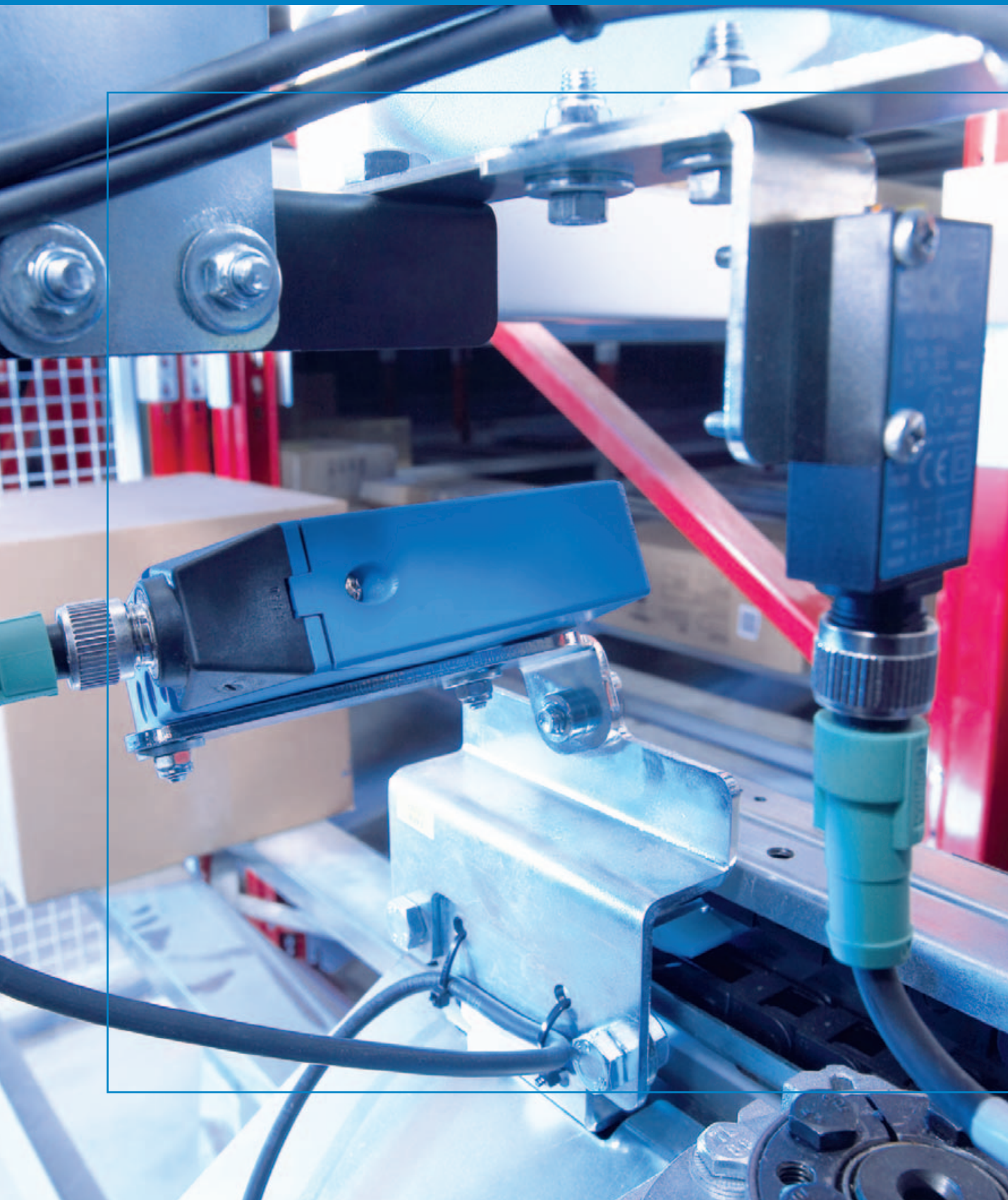
Material	Aluminium
Delivery	2 x screws M6x30, 2 x spring washers

Order information

Type	Order no.
BEF-RMC-D12	5321878



Mounting brackets – the versatile alternative





SICK mounting brackets offer reliable quality and intelligent details – for every SICK sensor. Easy mounting and high functionality ensure short downtimes for machine changeovers and fast commissioning of industrial installations.

For cuboid sensors

from page 24

For round sensors

from page 41

**For distance sensors
and light grids**

from page 45

MOUNTING BRACKETS →

BEF-W2S-A

Mounting bracket

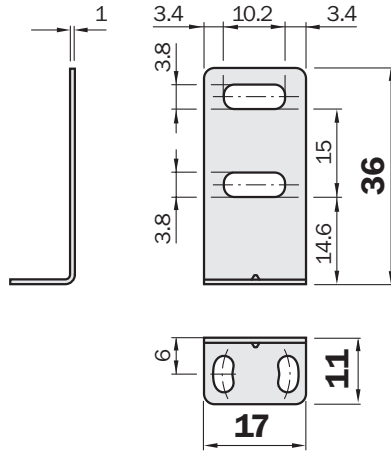


W2S



Mounting bracket for floor mounting

Dimensional drawing



Technical data

Material Steel, galvanised

Order information

Type	Order no.
BEF-W2S-A	4034748

BEF-W2S-B

Mounting bracket

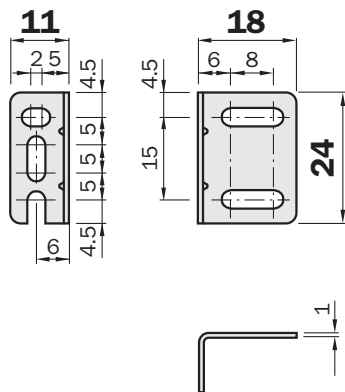


W2S



Mounting bracket for wall mounting

Dimensional drawing



Technical data

Material Steel, galvanised

Order information

Type	Order no.
BEF-W2S-B	4034749

BEF-WK-W4

Mounting bracket



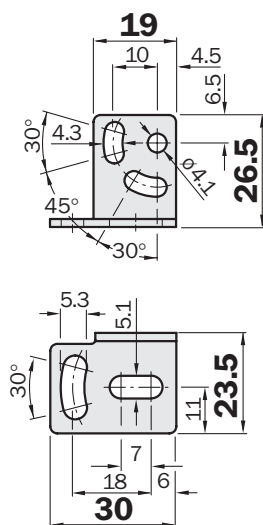
W4-3

UC4



Mounting bracket

Dimensional drawing



Technical data

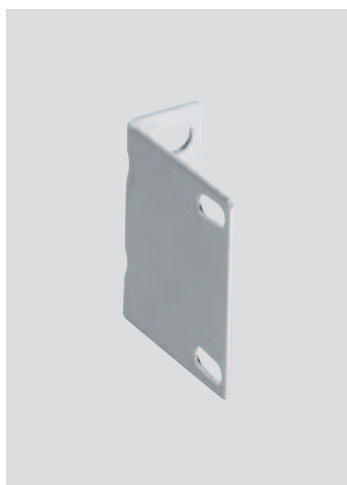
Material	Stainless steel (1.43101)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WK-W4	2022026

BEF-W100-A

Mounting bracket



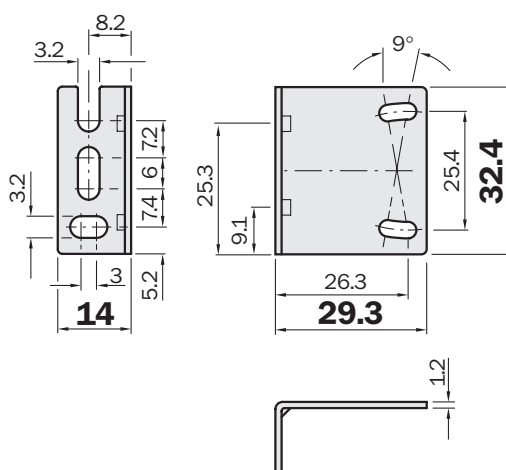
W8

W100



Mounting bracket for wall mounting

Dimensional drawing



Technical data

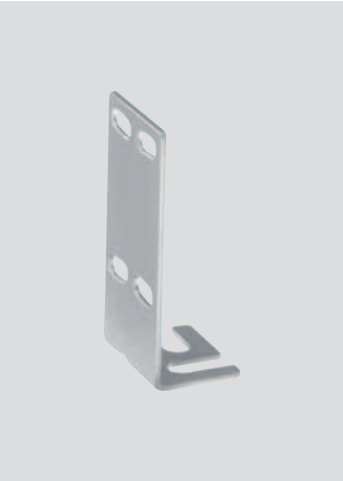
Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W100-A	5311520

BEF-W100-B

Mounting bracket



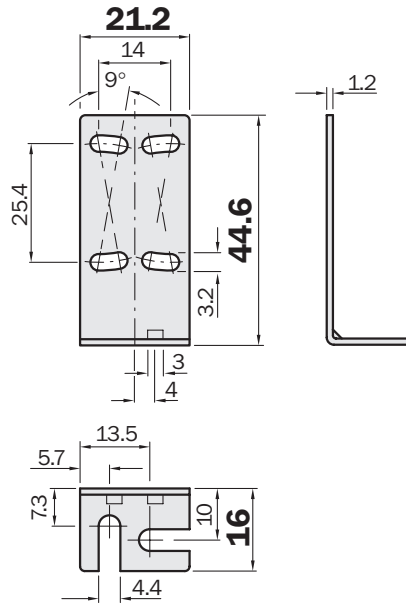
W8

W100



Mounting bracket for floor mounting

Dimensional drawing



Technical data

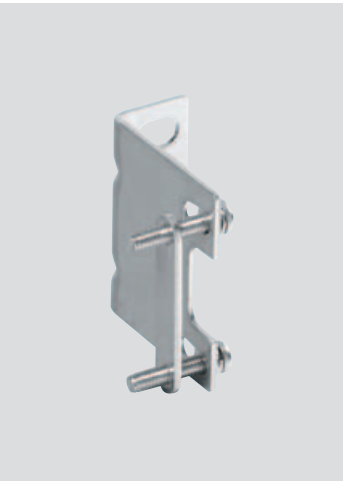
Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W100-B	5311521

BEF-W140A

Mounting bracket

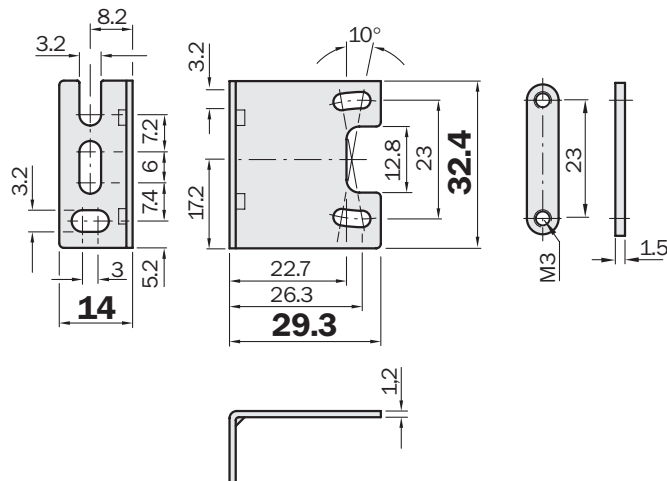


W140-2



Mounting bracket for wall mounting

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W140A	5308098

BEF-W140B

Mounting bracket

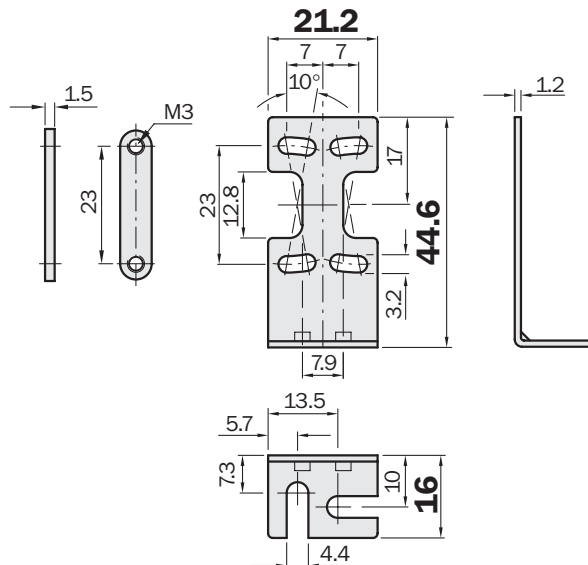


W140-2



Mounting bracket for floor mounting

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W140B	5308519

BEF-W150-A

Mounting bracket

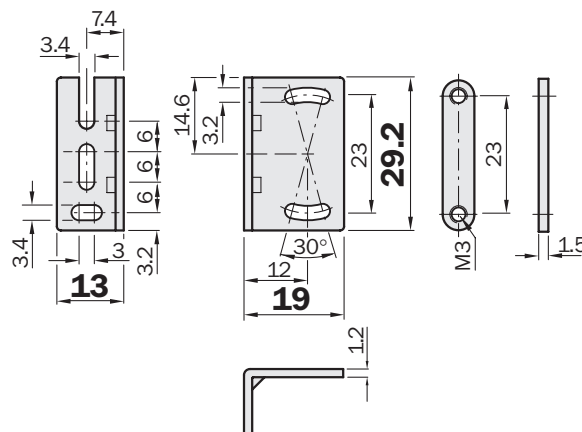


W150



Mounting bracket for wall mounting

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W150-A	5306217

BEF-W150-B

Mounting bracket

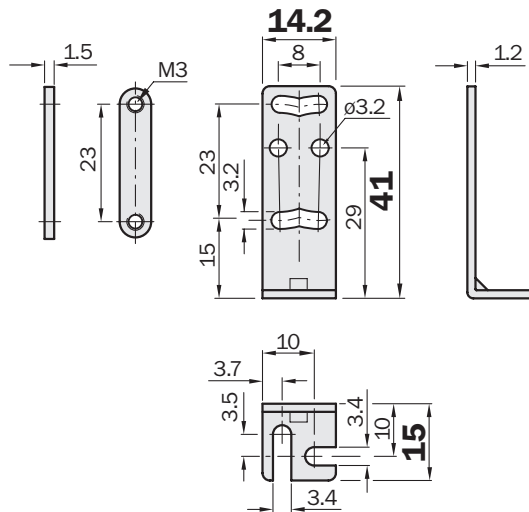


W150



Mounting bracket for floor mounting

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W150-B	5306279

BEF-W160

Mounting bracket

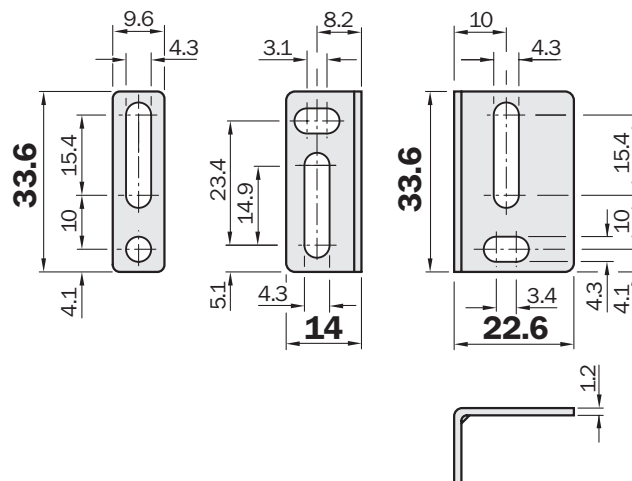


W160



Mounting bracket for wall mounting

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W160	5305197

BEF-W170

Mounting bracket

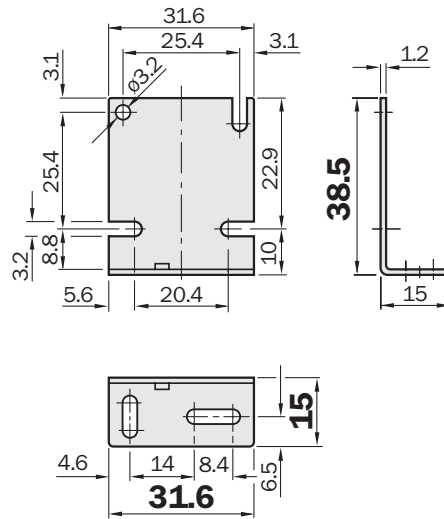


W170



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W170	5305686

BEF-W190

Mounting bracket

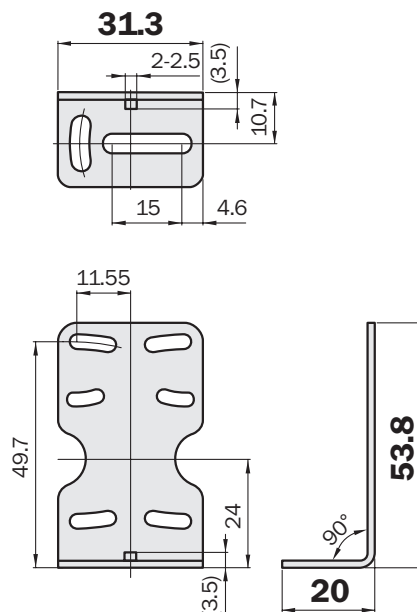


W190



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W190	5311362

Mounting brackets

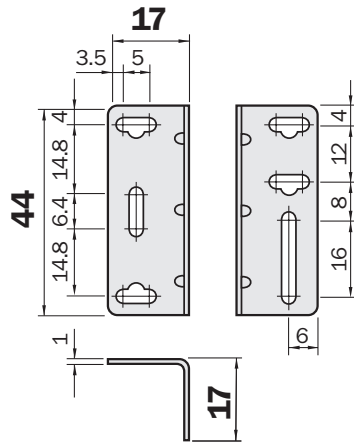
BEF-WN-W9-2

Mounting bracket



Mounting bracket for wall mounting

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W9-2	2022855

W9-2

LUT2

KT3

CSM1



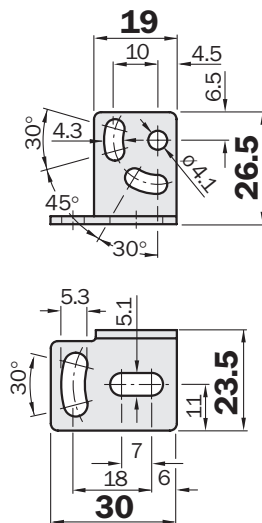
BEF-WK-W12

Mounting bracket



Mounting bracket, small

Dimensional drawing



Technical data

Material	Stainless steel (1.4301)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WK-W12	2012938

W11-2

W12-3

UC12

KT2

DT2



BEF-WG-W12

Mounting bracket

Mounting bracket, large

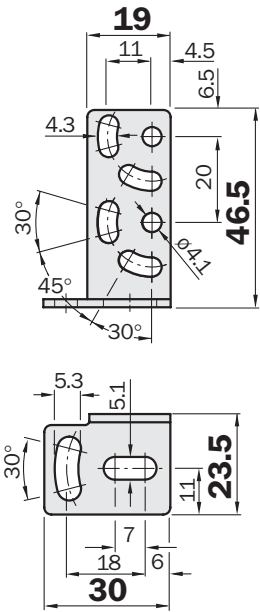
Dimensional drawing

Technical data

Material	Stainless steel (1.4301)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WG-W12	2013942



W11-2

W12-3

UC12

KT2

DT2



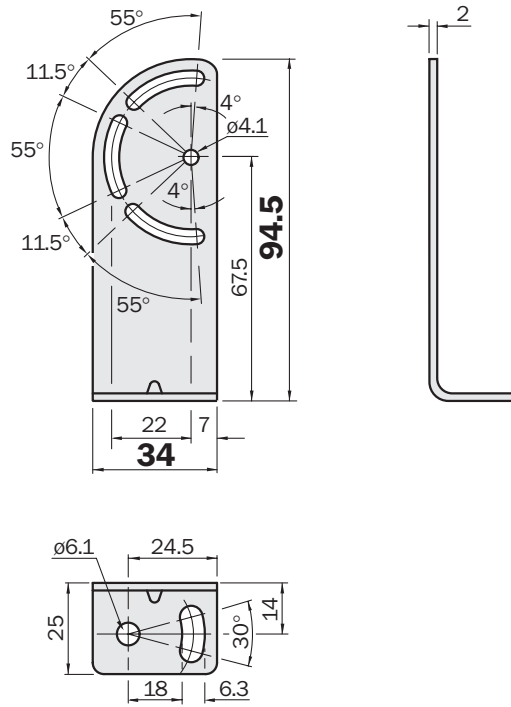
BEF-WN-W14

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W14	2019084

W14-2

W18-3

DT10



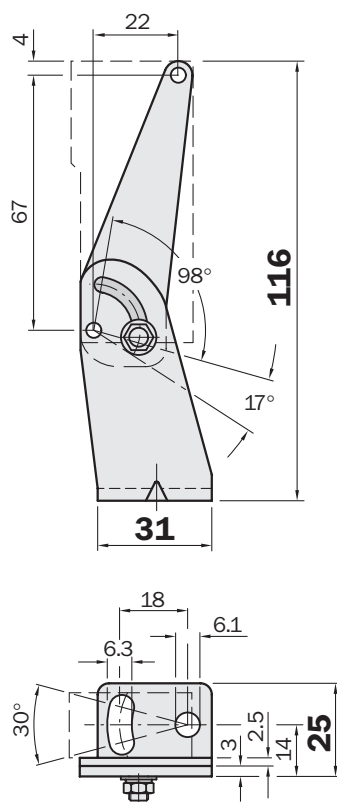
BEF-WN-W18

Mounting bracket



Mounting bracket with articulated arm

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W18	2009317

W14-2

W18-3

DT10



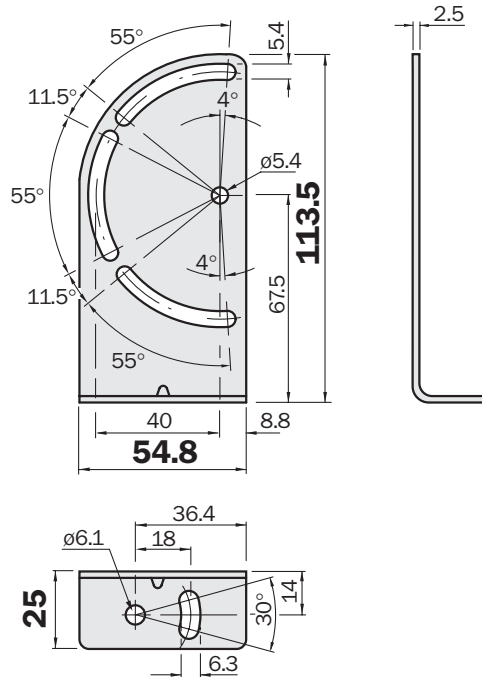
BEF-WN-W23

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W23	2019085

W23-2

W27-3

DS30



BEF-WK-W24

Mounting bracket



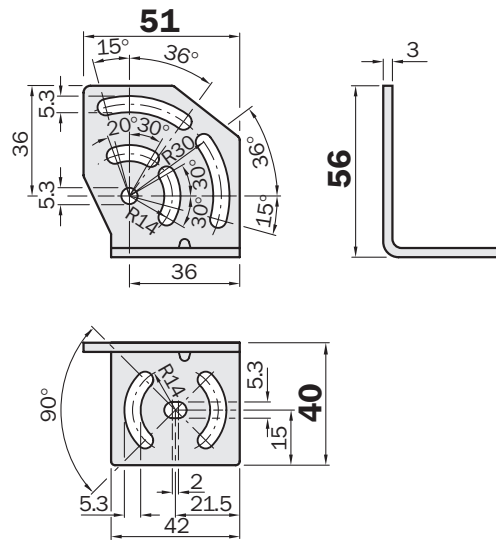
W24-2

W34



Mounting bracket

Dimensional drawing



Technical data

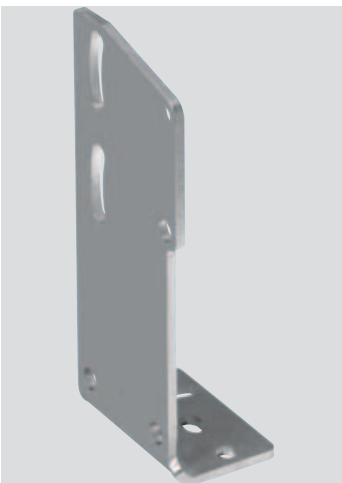
Material	Stainless steel (1.4301)
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Order information

Type	Order no.
BEF-WK-W24	4027532

BEF-WN-W24

Mounting bracket



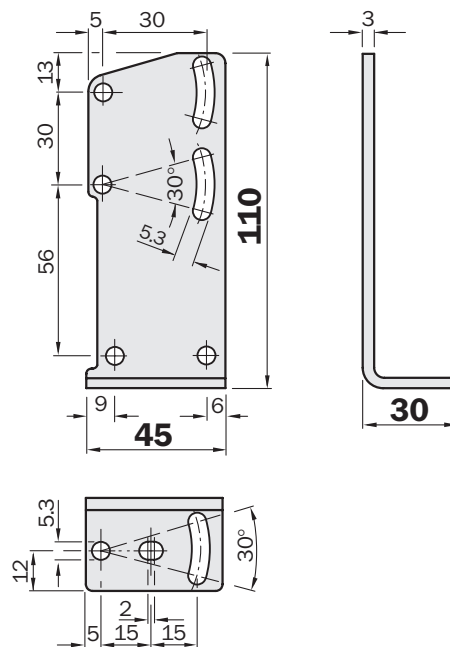
W24-2

W34



Mounting bracket

Dimensional drawing



Technical data

Material	Stainless steel (1.4301)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W24	2015248

BEF-W250

Mounting bracket

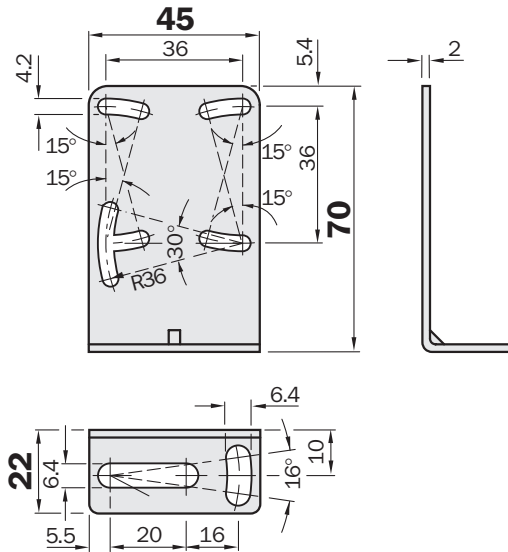


W250



Mounting bracket

Dimensional drawing



Technical data

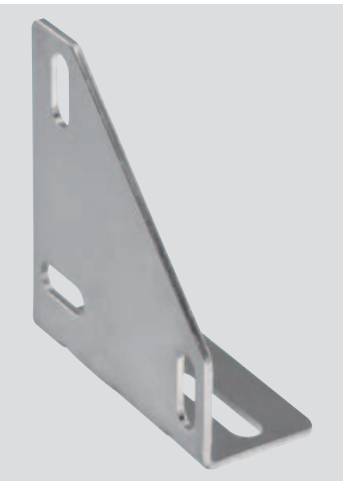
Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W250	5305850

BEF-W260

Mounting bracket

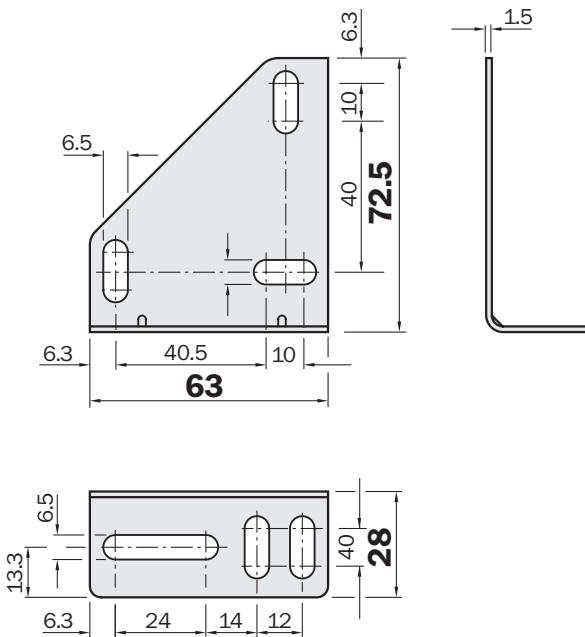


W260



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
-----------------	-------------------

Order information

Type	Order no.
BEF-W260	5304819

BEF-W280

Mounting bracket

Mounting bracket

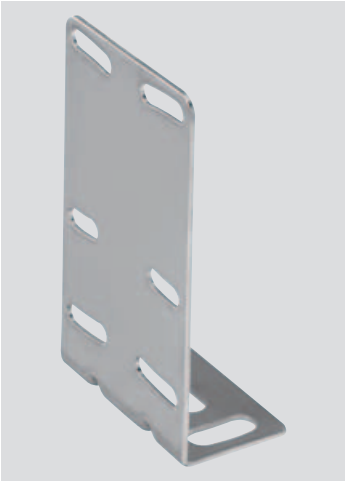
Dimensional drawing

Technical data

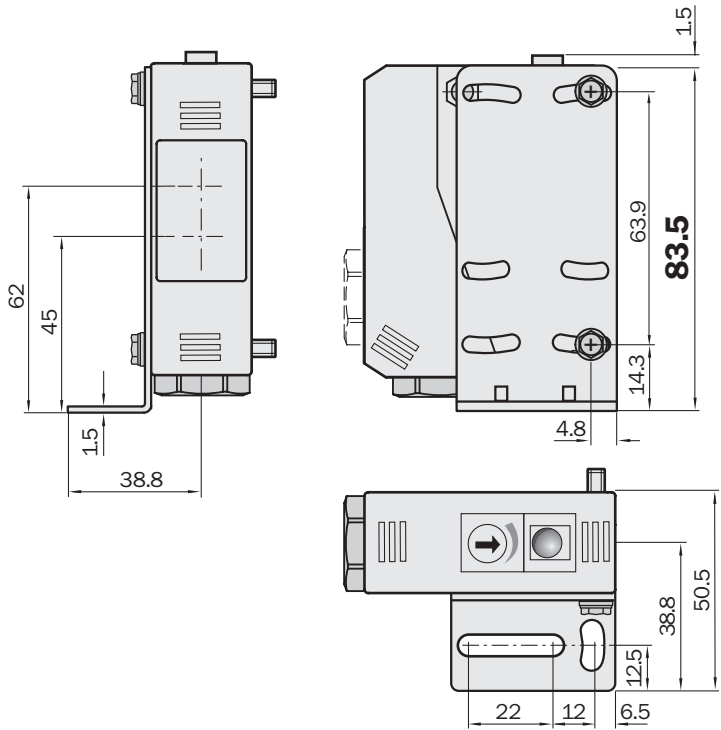
Material	Stainless steel (1.4301)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-W280	5313885



W280



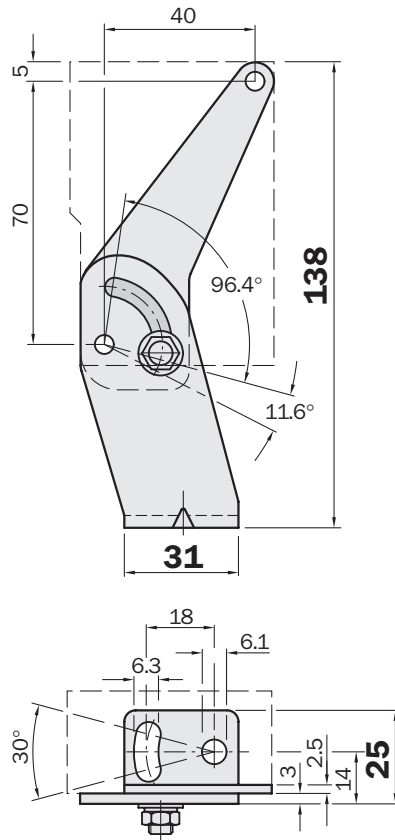
BEF-WN-W27

Mounting bracket



Mounting bracket with articulated arm

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W27	2009122

W23-2

W27-3

DS30



BEF-WN-W32

Mounting bracket

Mounting bracket

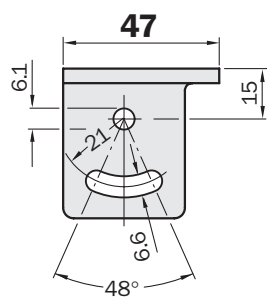
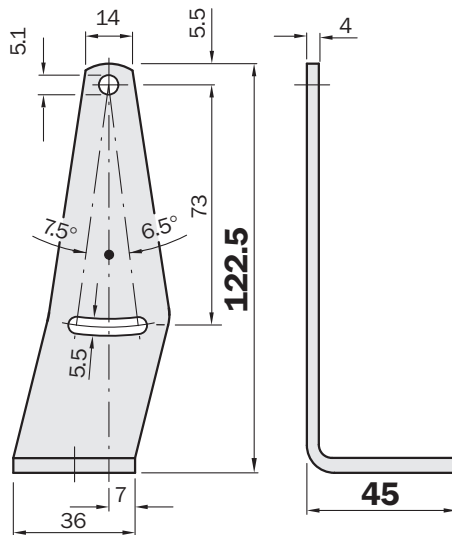
Dimensional drawing

Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W32	2005806



W30

W32

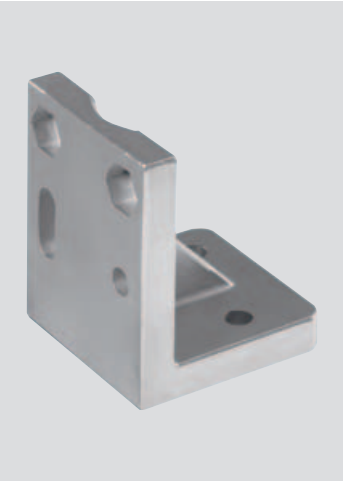
W34

W36



BEF-WN-W45

Mounting bracket

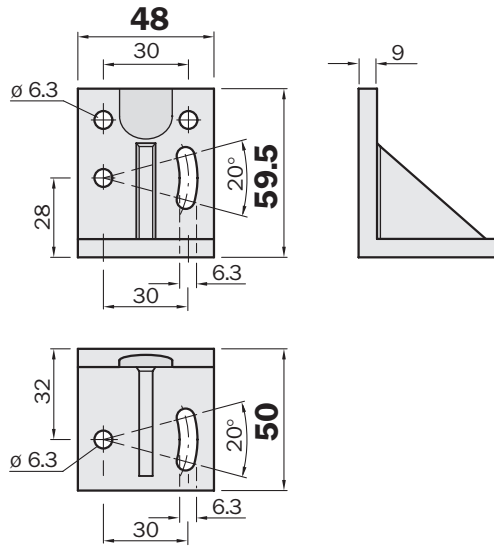


W45



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-W45	2011480

BEF-WLL170

Mounting bracket



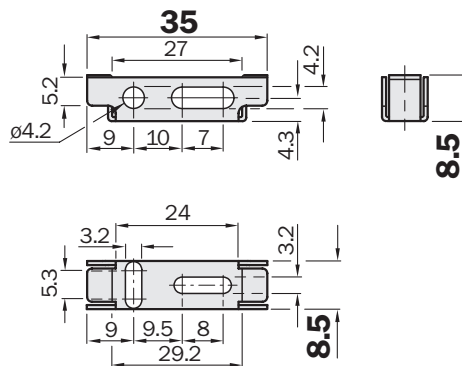
WLL170-2

WLL190-2



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
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Order information

Type	Order no.
BEF-WLL170	5306574

BEF-WN-M12

Mounting bracket

Mounting bracket

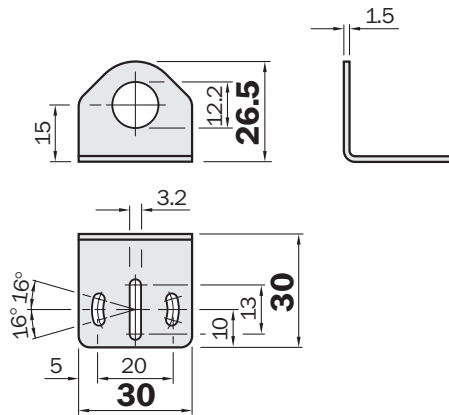
Dimensional drawing

Technical data

Material	Steel, galvanised
-----------------	-------------------

Order information

Type	Order no.
BEF-WN-M12	5308447



V12

IM12

MM12



BEF-WG-M12

Mounting bracket

Mounting plate

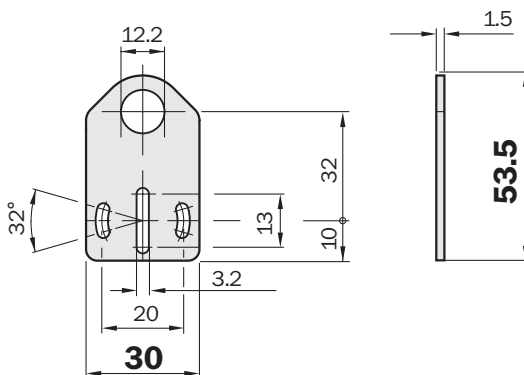
Dimensional drawing

Technical data

Material	Steel, galvanised
-----------------	-------------------

Order information

Type	Order no.
BEF-WG-M12	5321869



V12

IM12

MM12



BEF-WN-M12N

Mounting bracket

Mounting bracket

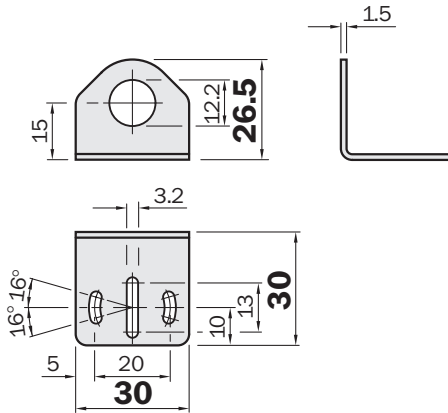
Dimensional drawing

Technical data

Material	Stainless steel (1.4404)
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Order information

Type	Order no.
BEF-WN-M12N	5320949



V12

IM12

MM12



BEF-WG-M12N

Mounting bracket

Mounting plate

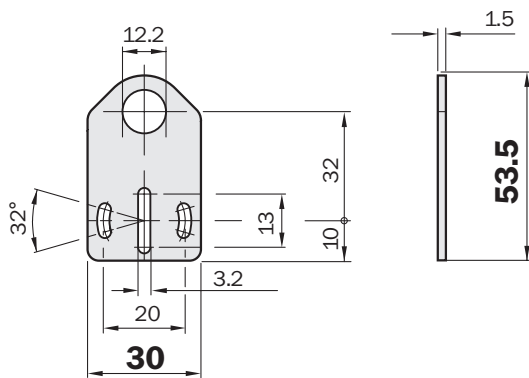
Dimensional drawing

Technical data

Material	Stainless steel (1.4404)
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Order information

Type	Order no.
BEF-WG-M12N	5320950



V12

IM12

MM12



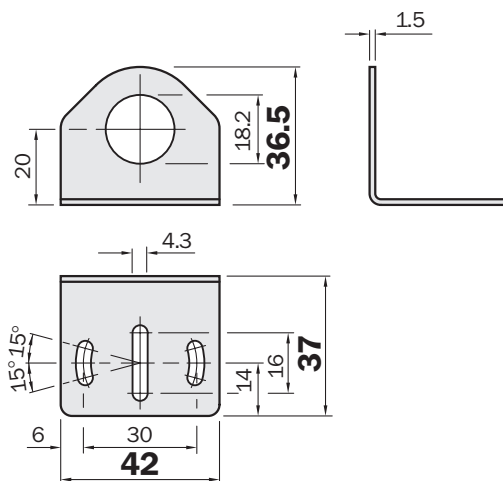
BEF-WN-M18

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
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Order information

Type	Order no.
BEF-WN-M18	5308446

MH15

V18

IM18

MM18

CM18

UM18

KT1M



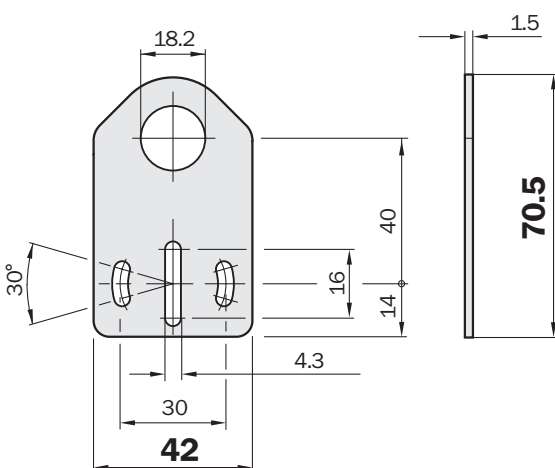
BEF-WG-M18

Mounting



Mounting plate

Dimensional drawing



Technical data

Material	Steel, galvanised
----------	-------------------

Order information

Typ	Order no.
BEF-WG-M18	5321870

MH15

V18

IM18

MM18

CM18

UM18

KT1M



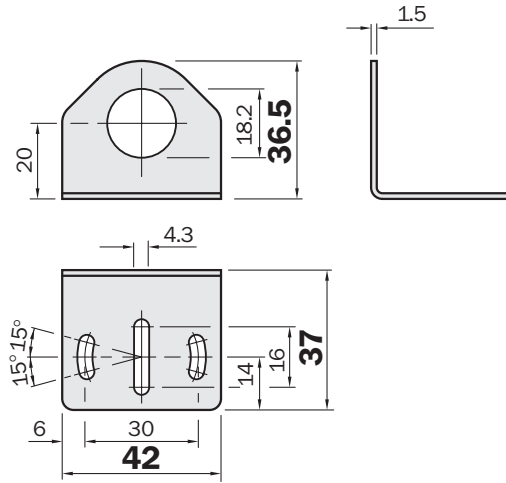
BEF-WN-M18N

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Stainless steel (1.4404)
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Order information

Type	Order no.
BEF-WN-M18N	5320947

MH15

V18

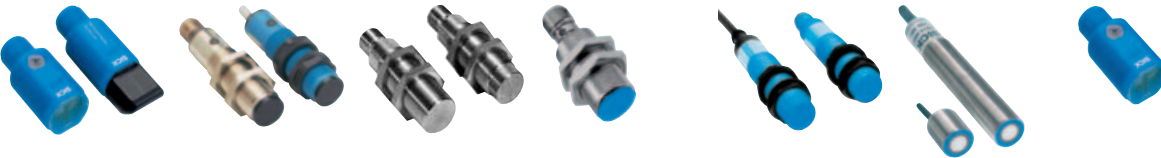
IM18

MM18

CM18

UM18

KT1M



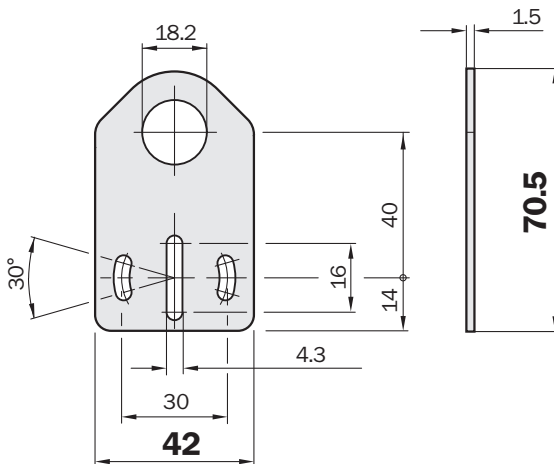
BEF-WG-M18N

Mounting bracket



Mounting plate

Dimensional drawing



Technical data

Material	Stainless steel (1.4404)
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Order information

Type	Order no.
BEF-WG-M18N	5320948

MH15

V18

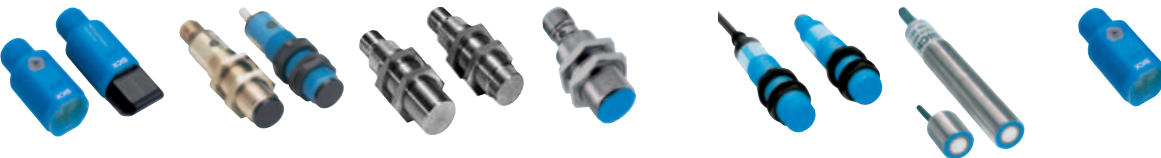
IM18

MM18

CM18

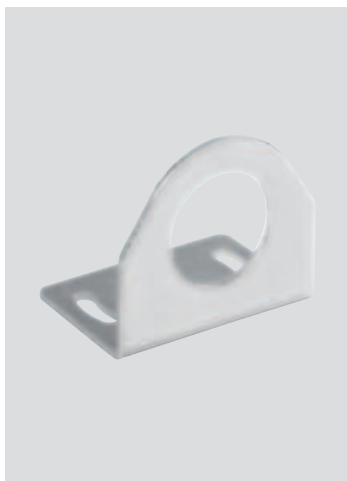
UM18

KT1M



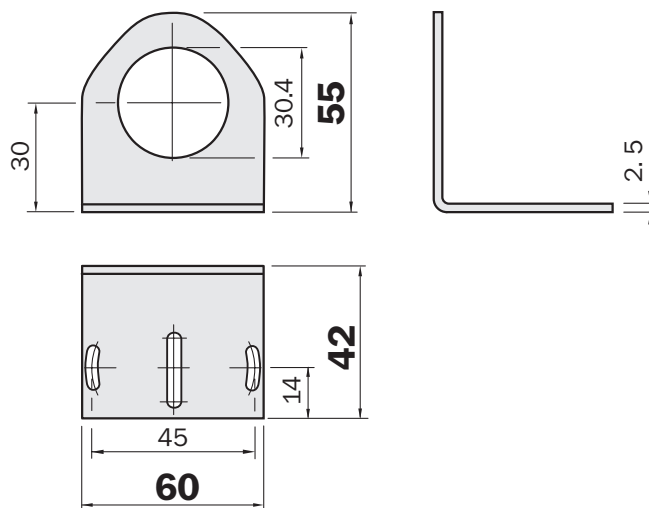
BEF-WN-M30

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
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Order information

Type	Order no.
BEF-WN-M30	5308445

IM30

CM30

UM30



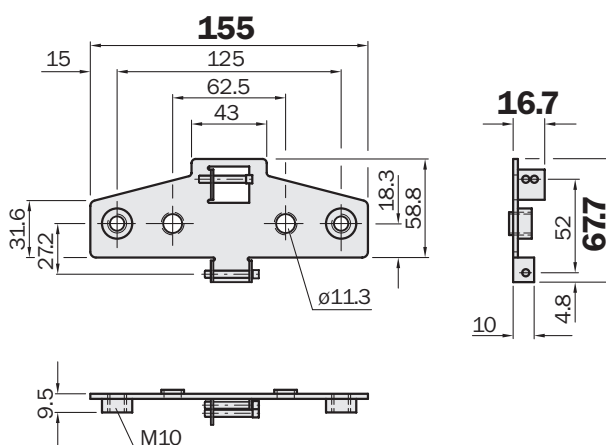
BEF-WN-WTR

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

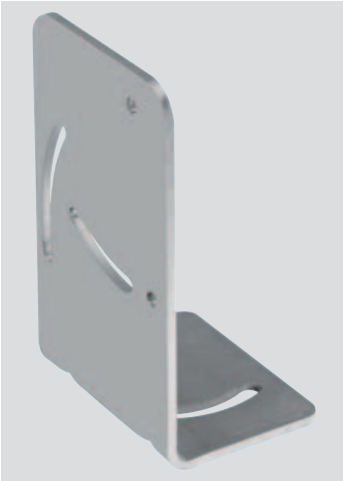
Type	Order no.
BEF-WN-WTR	2017417

WTR



BEF-WN-DT20

Mounting bracket

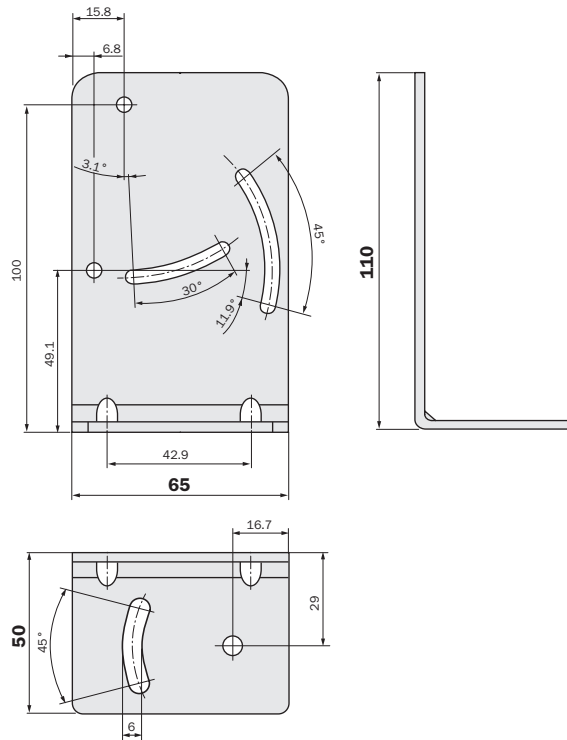


DT20



Mounting bracket

Dimensional drawing



Technical data

Material	Stainless steel (1.4301)
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Order information

Type	Order no.
BEF-WN-DT20	4043524

BEF-WN-DS60

Mounting bracket

Mounting bracket

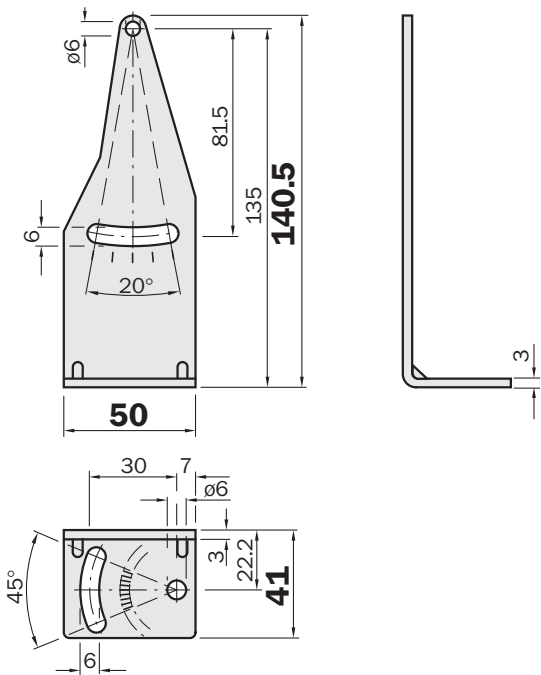
Dimensional drawing

Technical data

Material	Stainless steel (1.4301)
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Order information

Type	Order no.
BEF-WN-DS60	4032937



DS40

DT60

DS60



BEF-WN-WLG12

Mounting bracket

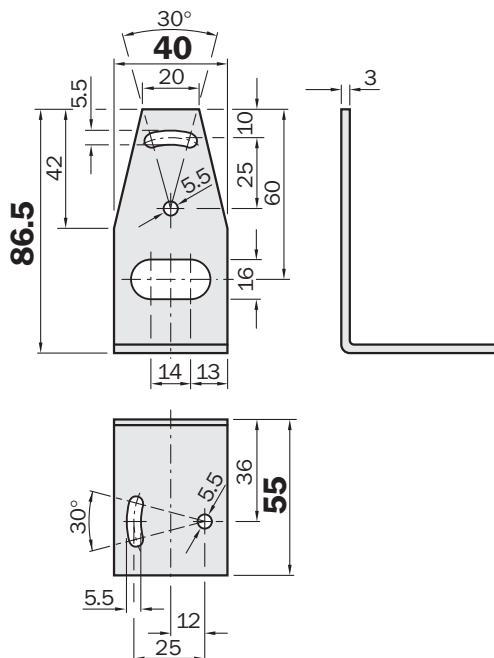


WLG12



Mounting bracket

Dimensional drawing



Technical data

Material	Stainless steel (1.4301)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-WLG12	2017567

Mounting kit 1

Mounting bracket



MLG

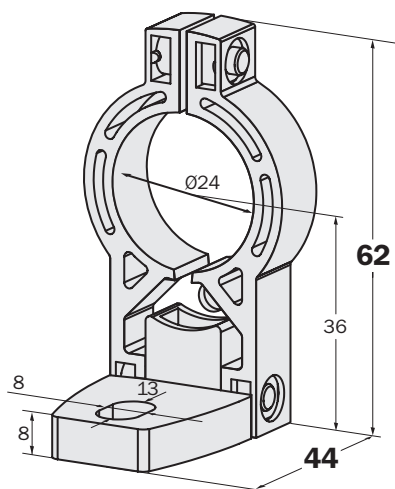
ELG

HLG



Rotary bracket

Dimensional drawing



Technical data

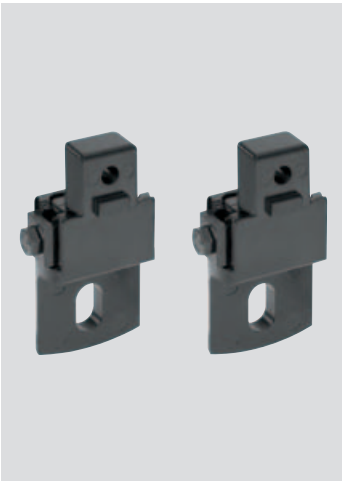
Material	Plastic (PA6)
Delivery	2 pairs incl. mounting material

Order information

Type	Order no.
Mounting kit 1	2019649

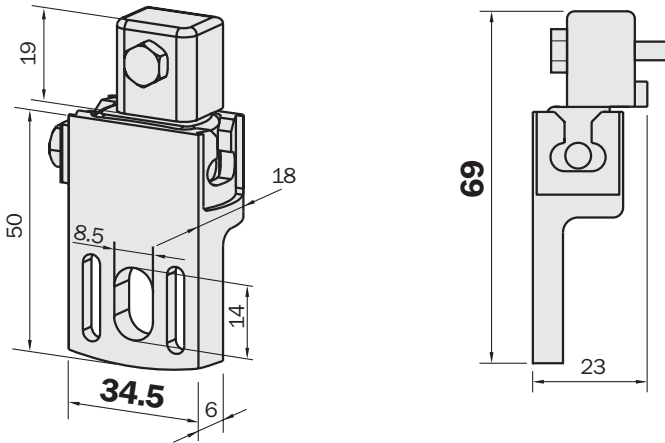
BEF-NUT-MLG

Mounting bracket



Side mounting with T-nuts

Dimensional drawing



Technical data

Material	Zinc, die-cast
Delivery	2 pairs incl. mounting material

Order information

Type	Order no.
BEF-NUT-MLG	2023696

MLG

ELG

HLG



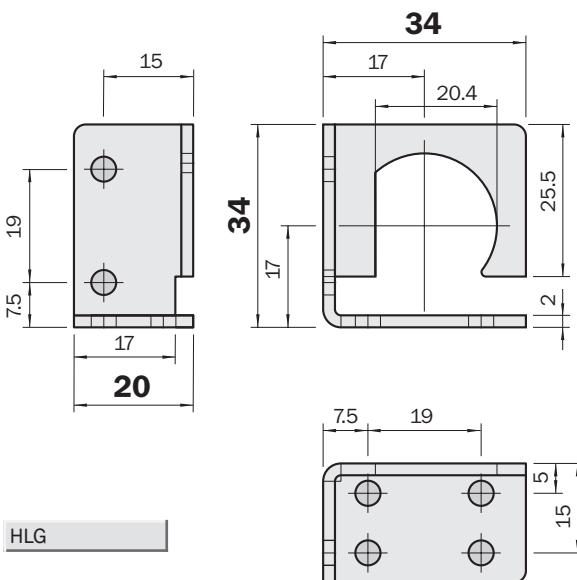
BEF-WK-XLG

Mounting bracket



Mounting bracket

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	2 pairs

Order information

Type	Order no.
BEF-WK-XLG	2029100

MLG

ELG

HLG



Clamping and alignment brackets – cleverly mounted





Accurate alignment, quick mounting:
SICK clamping and alignment brackets offer you both, thanks to reliable, intelligent and co-ordinated solutions – from ball joints to spring plates, from dovetail guides to bar mounting clamps.

For cuboid sensors

from page 52

For round sensors

from page 55

For light grids and
distance sensors

from page 57

CLAMPING AND ALIGNMENT BRACKETS →

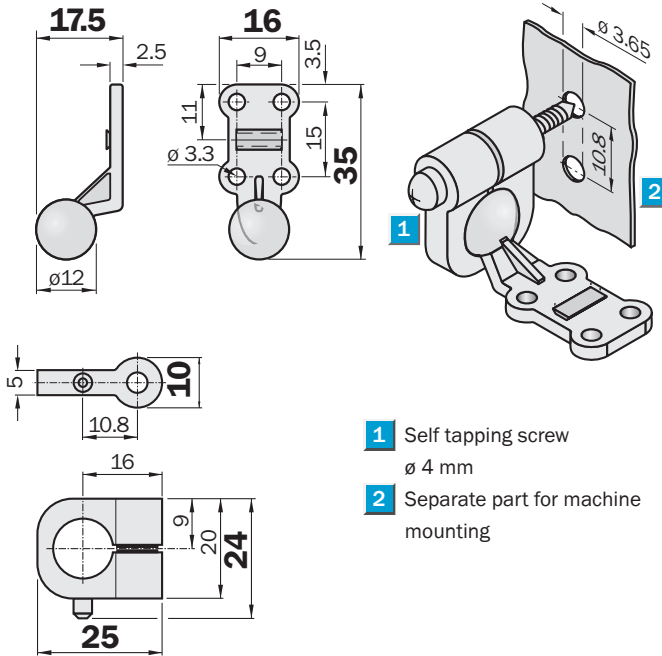
BEF-GH-MINI01

Clamping and alignment bracket



Ball joint bracket

Dimensional drawing



- 1 Self tapping screw
 $\varnothing 4$ mm
- 2 Separate part for machine
mounting

Technical data

Material	Plastic (ABS)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-GH-MINI01	2023160

W2S

W4-3

UC4

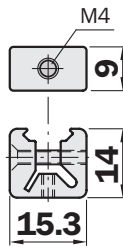


BEF-KH-W12**Clamp for dovetail mounting****Clamping and alignment bracket****Dimensional drawing****Technical data**

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KH-W12	2013285



W11-2

W12-3

UC12

KT2

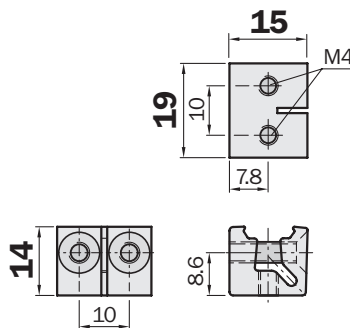
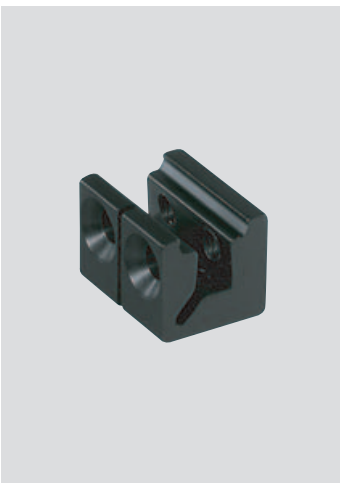
DT2

**BEF-DKH-W12****Double clamp for dovetail mounting****Clamping and alignment bracket****Dimensional drawing****Technical data**

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-DKH-W12	2013947



W11-2

W12-3

UC12

KT2

DT2



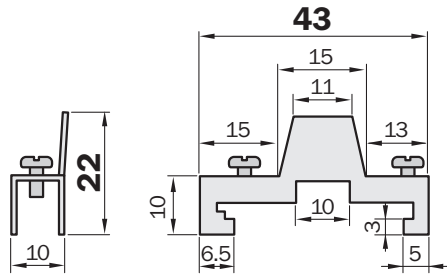
BEF-EB01-W190

Clamping and alignment bracket



Endcap for block installation on DIN-RAIL

Dimensional drawing



Technical data

Material Steel, galvanised

Delivery 2 pieces

Order information

Type	Order no.
BEF-EB01-W190	5313011

WLL170-2

WLL190-2

WI130L



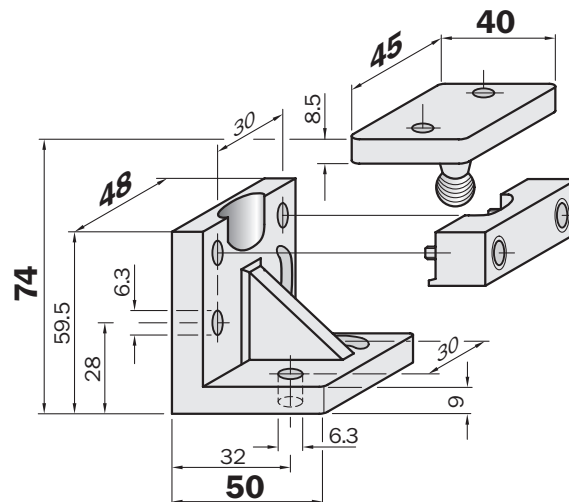
BEF-KK-W45

Clamping and alignment bracket



Ball joint bracket

Dimensional drawing



Technical data

Material Steel, galvanised

Delivery incl. mounting material

Order information

Type	Order no.
BEF-KK-W45	2011436

W45

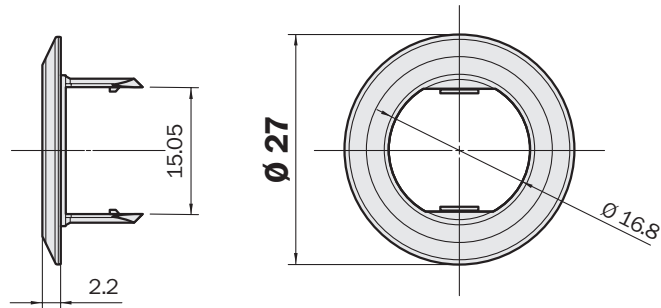


BEF-WN-MH15-1**Clamping and alignment bracket****Mounting adapter****Dimensional drawing****Technical data**

Material	Plastic (PA 12)
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Order information

Type	Order no.
BEF-WN-MH15-1	4039533



MH15

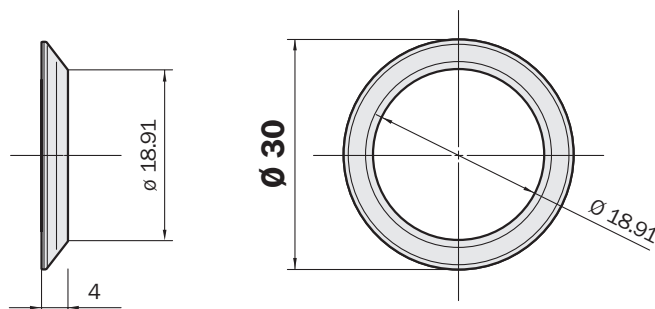
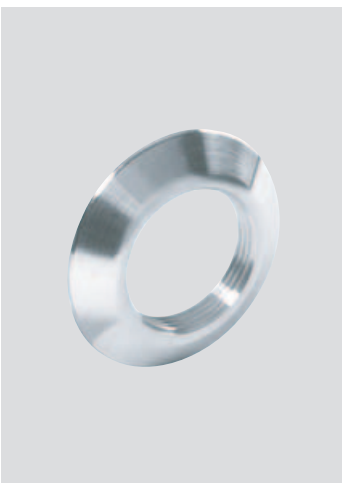
KT1M

**BEF-WN-MH15-2****Clamping and alignment bracket****Mounting ring****Dimensional drawing****Technical data**

Material	Stainless steel (1.4404)
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Order information

Type	Order no.
BEF-WN-MH15-2	4053358



MH15

KT1M



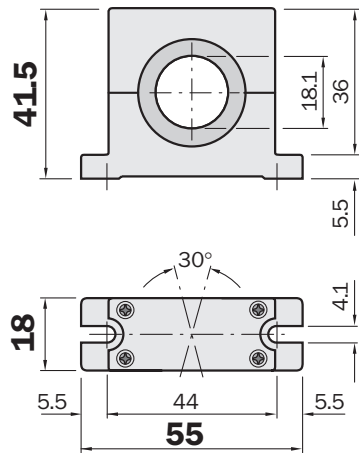
BEF-WN-M18-ST02

Clamping and alignment bracket



Alignment bracket with ball joint

Dimensional drawing



Technical data

Material	Plastic (ABS)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-M18-ST02	5312973

MH15

V18

IM18

MM18

CM18

UM18

KT1M



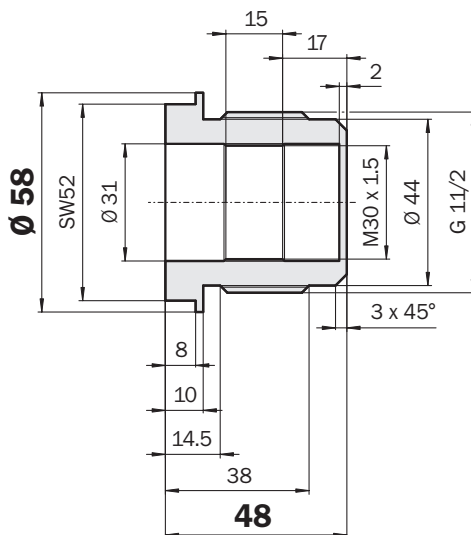
BEF-EA-CM30

Clamping and alignment bracket



Mounting adapter for silo and tank applications

Dimensional drawing



Technical data

Material	Plastic (POM)
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Order information

Type	Order no.
BEF-EA-CM30	2043770

CM30



BEF-RD30-PLG

Clamping and alignment bracket

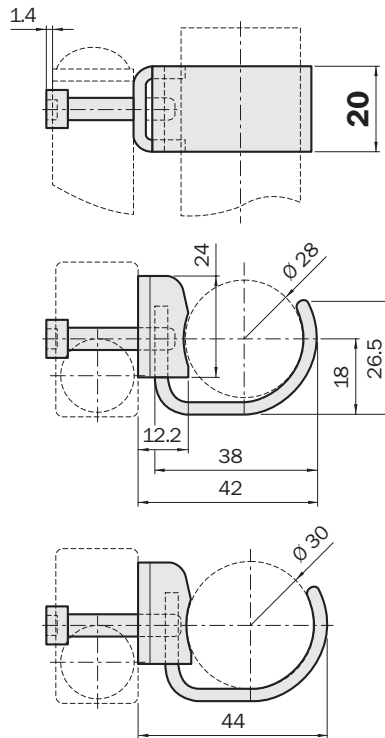


PLG



Bar mounting clamps

Dimensional drawing



Technical data

Material	Stainless steel (1.4301)
Delivery	2 pieces incl. mounting material

Order information

Type	Order no.
BEF-RD30-PLG	2040541

BEF-NSIT-PLG

Clamping and alignment bracket

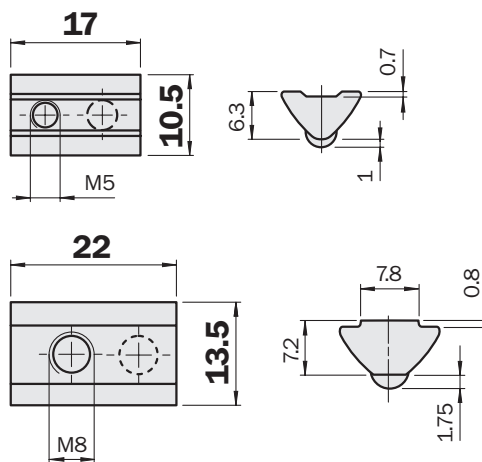


PLG



T-slot nut with spring ball for ITEM profile rail

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	Slot 6 and slot 8, 2 x each incl. mounting material

Order information

Type	Order no.
BEF-NSIT-PLG	2041045

BEF-NSBO-PLG

Clamping and alignment bracket

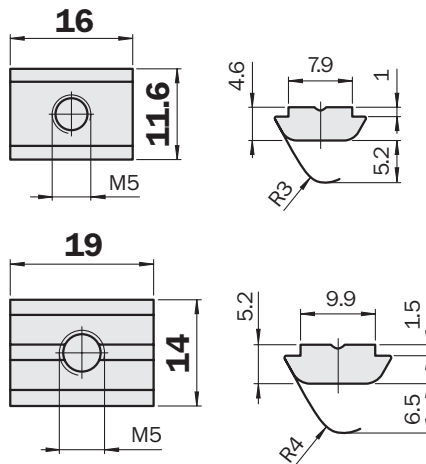


PLG



T-slot nut with spring leaf for Bosch profile rail

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	Slot 8 and slot 10, 2 x each incl. mounting material

Order information

Type	Order no.
BEF-NSBO-PLG	2041049

BEF-GH-DME

Clamping and alignment bracket



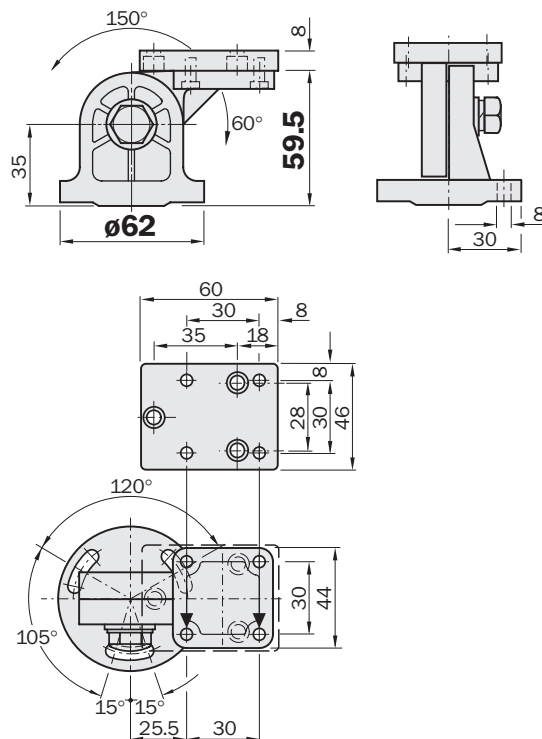
DME2000

DME3000



Articulated mounting bracket

Dimensional drawing



Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-GH-DME	2015229

BEF-DME/ISD

Clamping and alignment bracket



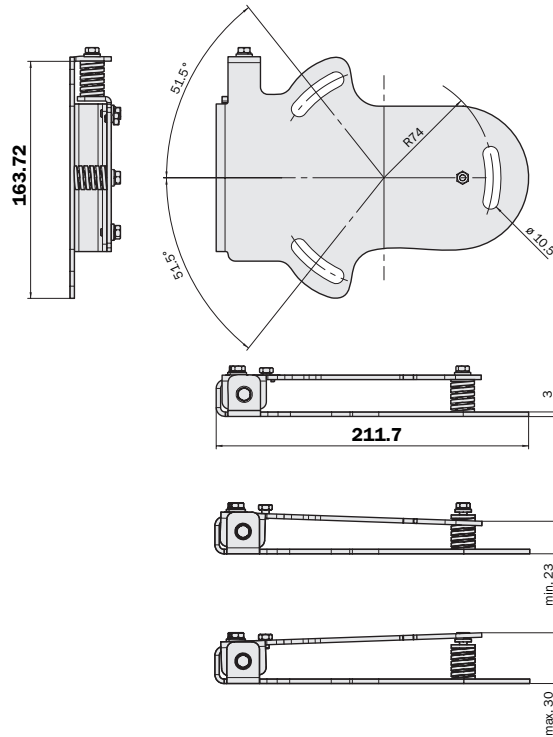
DME4000

ISD400



Alignment unit

Dimensional drawing



Technical data

Material	Aluminium, anodised
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Order information

Type	Order no.
BEF-DME/ISD	2046052

BEF-AH-DME

Clamping and alignment bracket

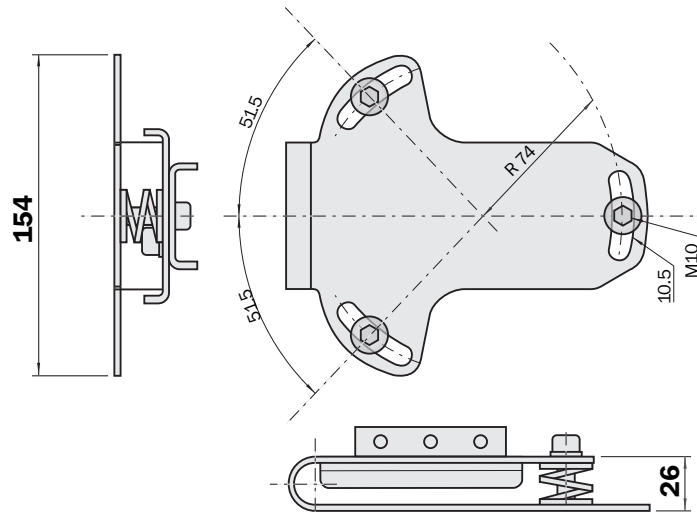


DME5000



Alignment unit

Dimensional drawing



Technical data

Material	Stainless steel (1.4541)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-AH-DME	2027721

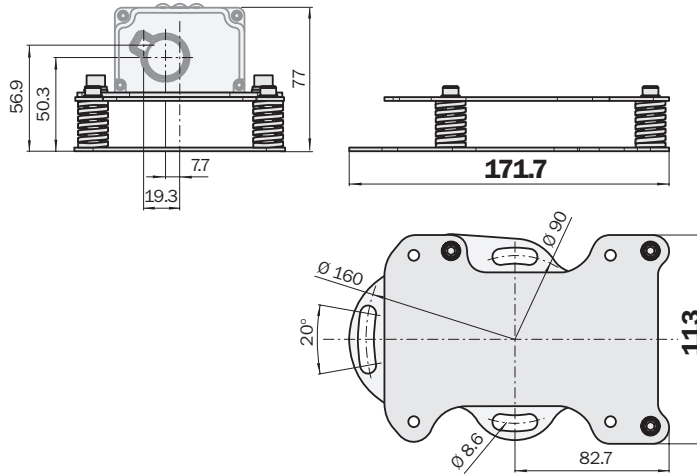
BEF-DSDT

Clamping and alignment bracket



Alignment unit

Dimensional drawing



Technical data

Material	Stainless steel (1.4301)
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-DSDT	2031377

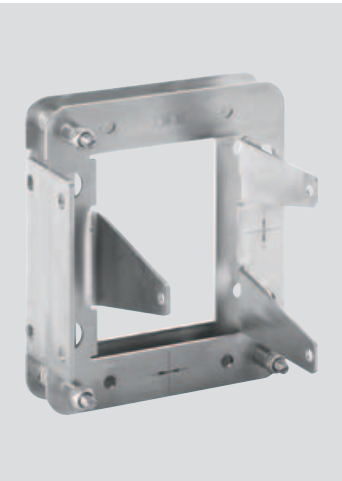
DT500

DS500



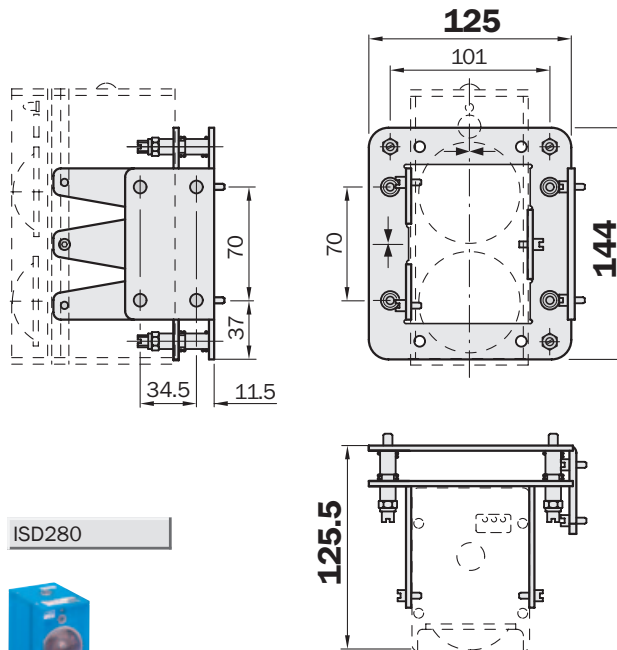
BEF-KH-ISD

Clamping and alignment bracket



Alignment unit

Dimensional drawing



Technical data

Material	Stainless steel
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KH-ISD	5306369

ISD230

ISD260

ISD280



BEF-GH-DMT

Clamping and alignment bracket



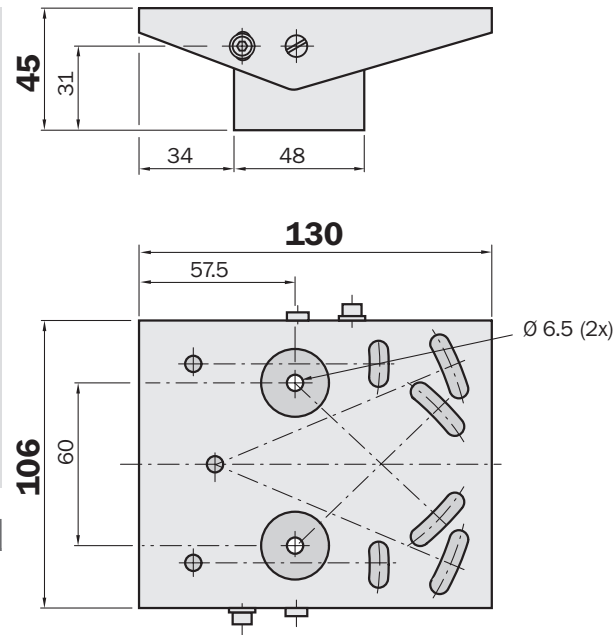
DMH

DML



Alignment unit

Dimensional drawing



Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-GH-DMT	5309130

BEF-GH-DMH2

Clamping and alignment bracket



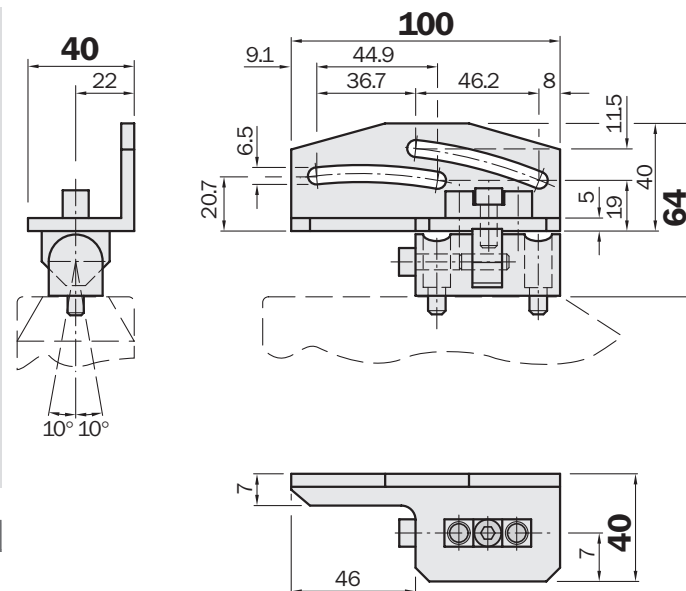
DMH

DMP



Alignment unit

Dimensional drawing



Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-GH-DMH2	2020796

Protective devices – when it gets dirty





Sensors are used in many different places, and not always clean ones. Moisture, dust, intense sunlight or mechanical stresses can stretch the sensors' capabilities or even destroy them. Protective devices from SICK ensure perfect functionality of the SICK sensors. Even under extreme conditions they counteract harmful environmental effects to protect the sensor.

PROTECTIVE DEVICES →

BEF-W2S-C

Protective device

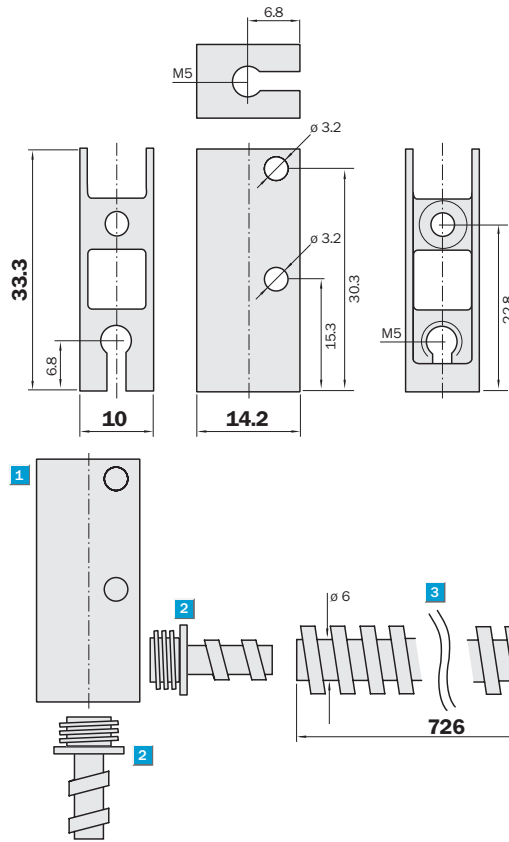


W2S



Protective housing with cable protection

Dimensional drawing



Technical data

Material	
Fixing bracket	Aluminium
Flexible metal conduit	Steel, chrome-plated

Order information

Type	Order no.
BEF-W2S-C	2033270

- 1 Mounting bracket damage protection for cables
- 2 Threaded adapter for metal flexible conduit
- 3 Flexible metal conduit/cable protection

BEF-SG-W12-3

Protective device



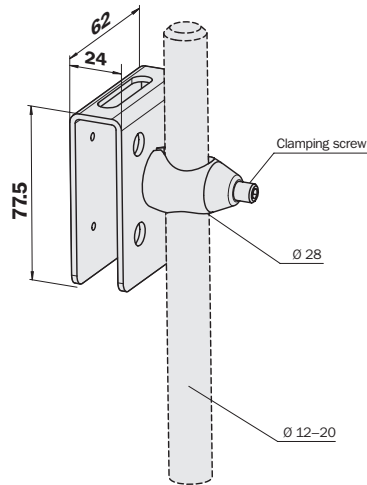
W11-2

W12-3



Protection hood for universal bar clamp

Dimensional drawing



Technical data

Material	
Protection hood	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal
	bar clamp and mounting material

Order information

Type	Order no.
BEF-SG-W12-3	2045175

BEF-SG-W27

Protective device

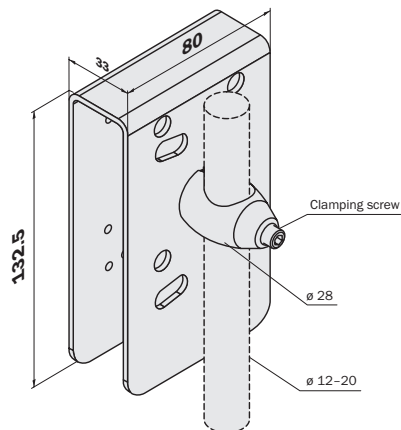


W14-2

W18-3

Protection hood for universal bar clamp

Dimensional drawing



Technical data

Material	
Protection hood	Steel, galvanised
Clamp	Zinc, die-cast
Delivery	incl. universal
	bar clamp and mounting material

Order information

Type	Order no.
BEF-SG-W27	2039601

W14-2

W18-3

W23-2

W27-3

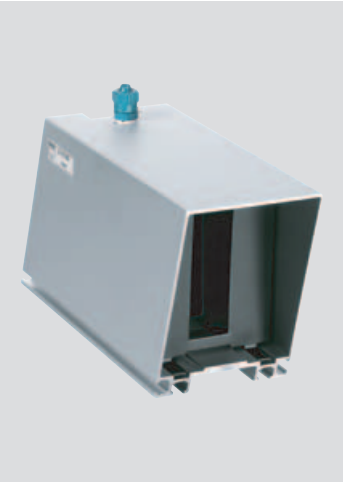
DT10

DS30



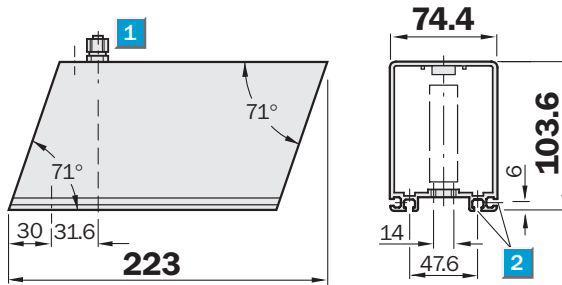
OBS-W24

Protective device



Dust protection tube, air-purged

Dimensional drawing



- 1 Fast action screw fitting for hose internal diameter 6 mm
- 2 Running nut channel for M5 nut

Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
OBS-W24	2015069

W24-2



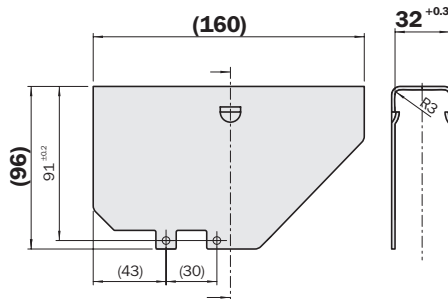
OBW-W24

Protective device



Weather-protection hood

Dimensional drawing



Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
OBW-W24	2015070

W24-2

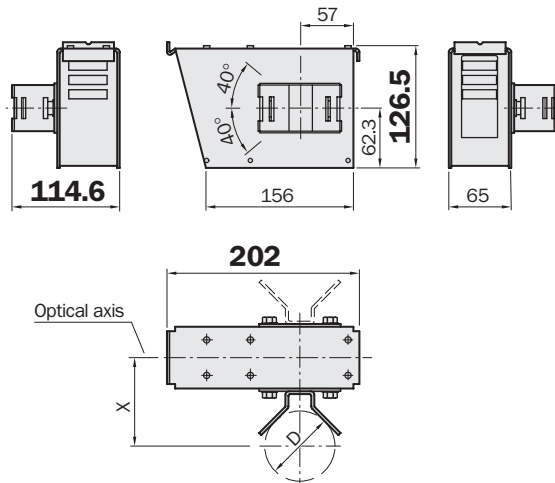


WSG1-01**Weather-protection hood****Protective device****Dimensional drawing****Technical data**

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
WSG1-01	1018470



W24-2

W34

DS40

DT60

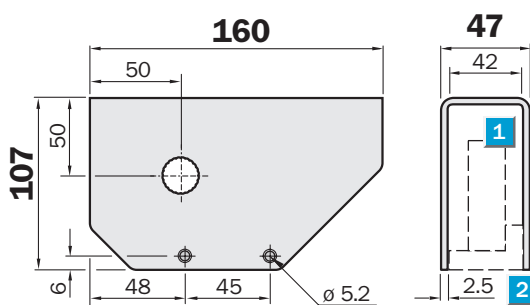
DS60

**OBW-KHS-M01****Weather-protection hood for universal bar clamp****Protective device****Dimensional drawing****Technical data**

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
OBW-KHS-M01	2023240



- 1 Sensor
2 Base plate with clamp supplied with unit

W23-2

W24-2

W27-3

W34

W260

DS30



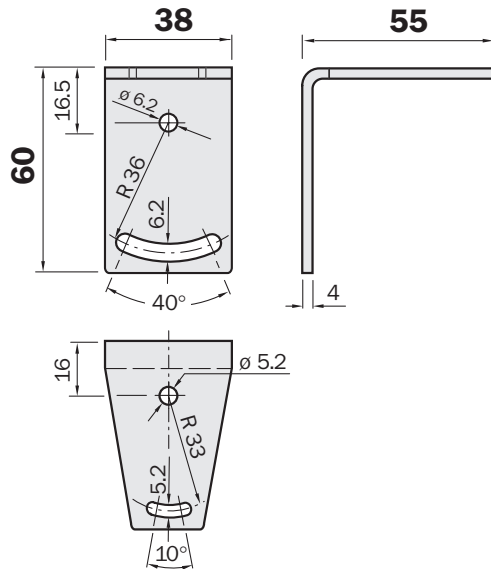
BEF-WN-OBW

Protective device



Mounting bracket for weather-protection hood OBW-KHS-M01

Dimensional drawing



Technical data

Material	Steel, galvanised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-WN-OBW	2023251

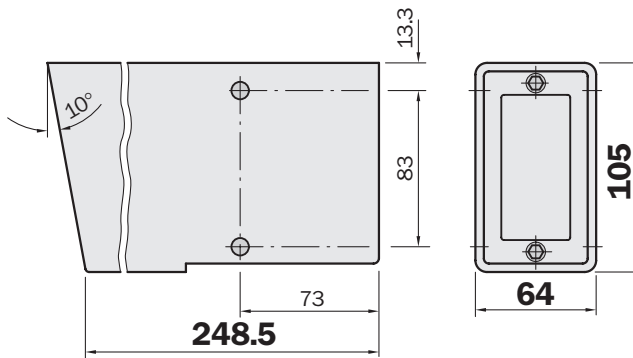
OBS-W45

Protective device



Dust protection tube

Dimensional drawing



Technical data

Material	Aluminium, painted
Delivery	incl. mounting material

Order information

Type	Order no.
OBS-W45	2011432

W45



OBW-W45

Protective device

Weather-protection hood

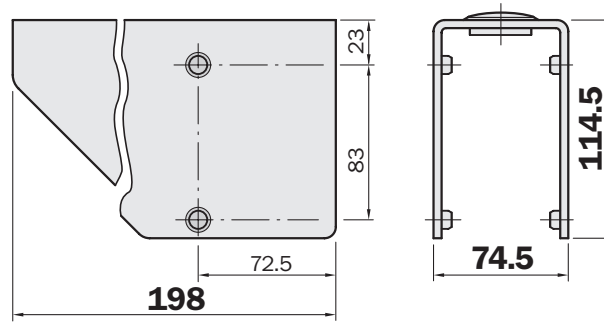
Dimensional drawing

Technical data

Material	Aluminium, painted
Delivery	incl. mounting material

Order information

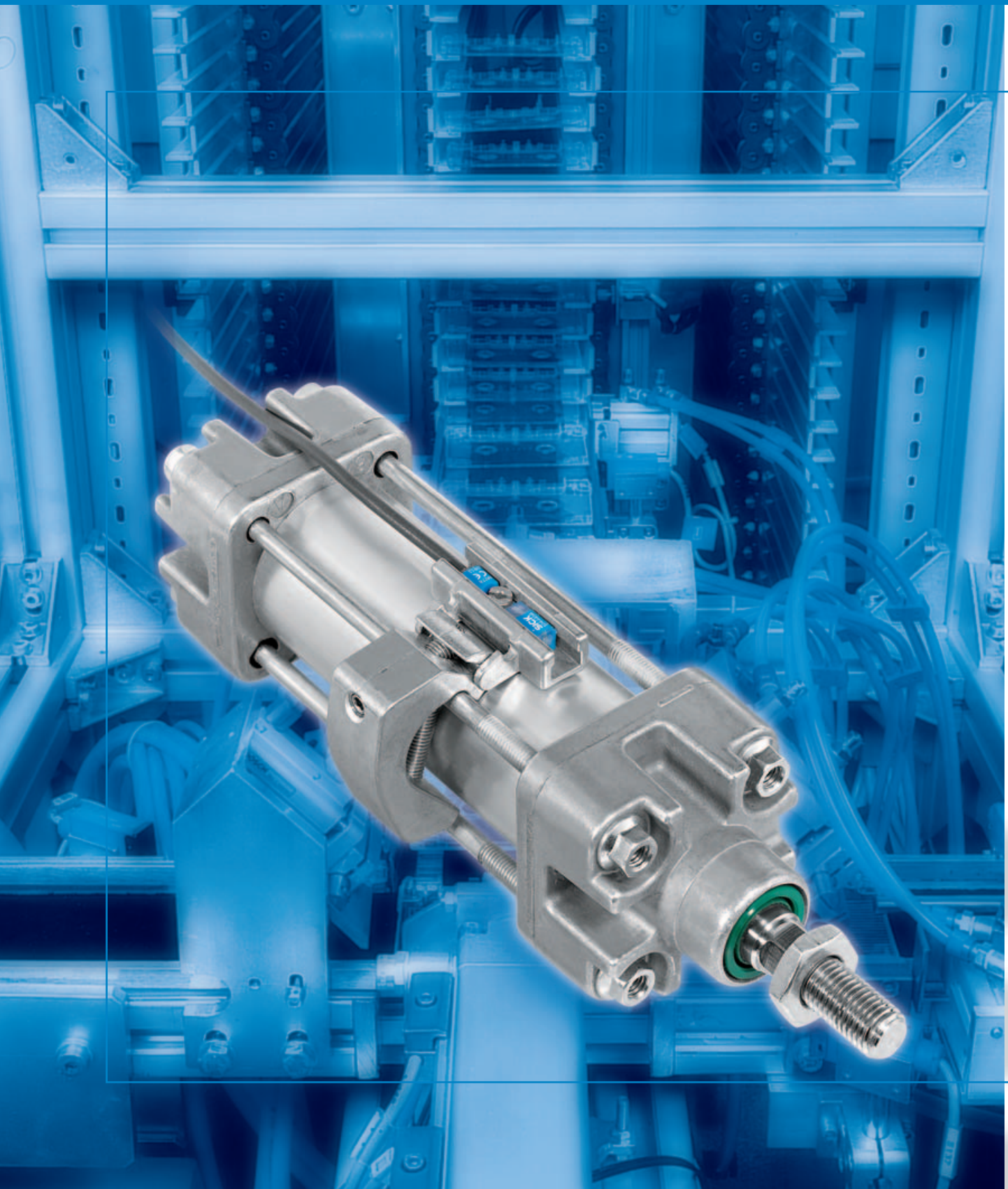
Type	Order no.
OBW-W45	2011431



W45



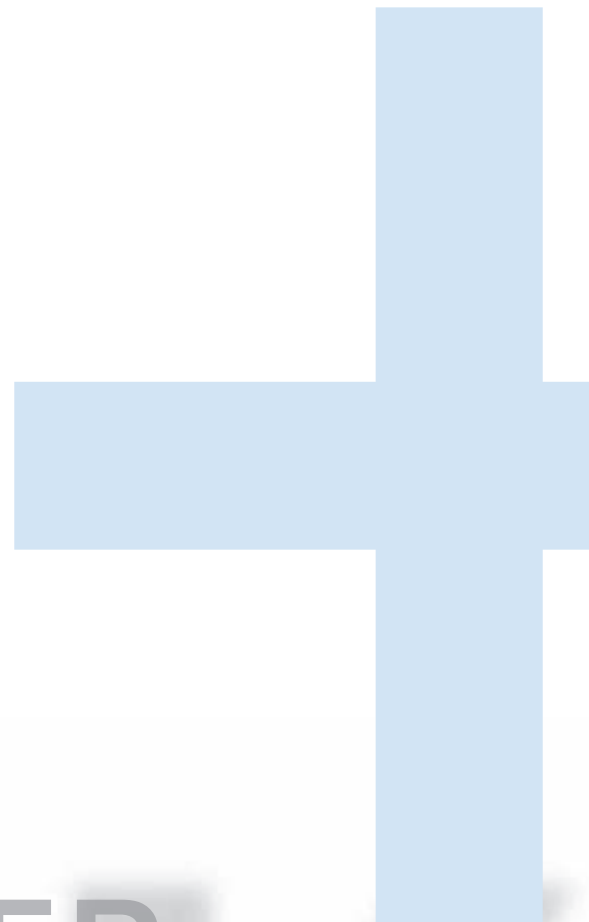
Mountings for cylinder sensors – the matching connection





Many linear motion sequences in modern industrial installations are pneumatically driven via piston rod cylinders. Accurate position determination of cylinder pistons is crucial to system control. In this field, SICK offers plenty of sensors, of course with matching mounting systems, to fix these sensors safely to the housing of the different piston rod cylinders.

MOUNTINGS FOR CYLINDER SENSORS →



BEF-KHZ-RT1-xx

Mounting bracket for cylinder sensors

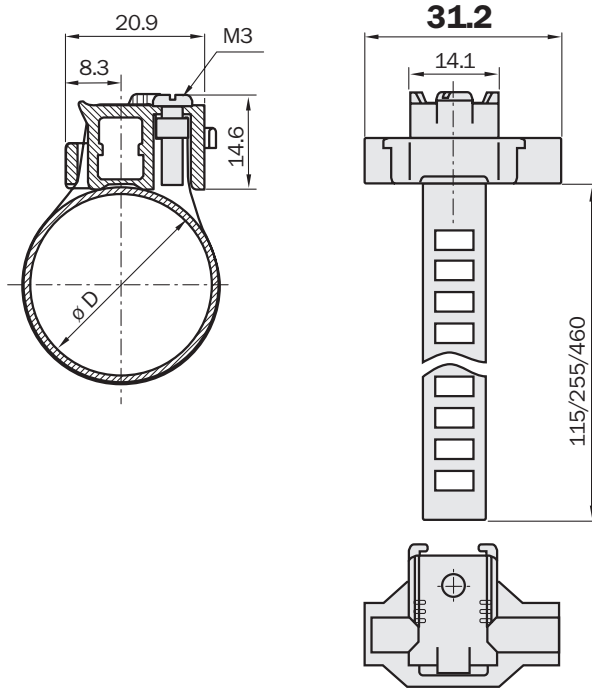
Mounting bracket for round body cylinder

Dimensional drawing

Technical data

Material

Plastic (PEI)/
nickel silver



Order information

Type	Order no.	Ø D in mm
BEF-KHZ-RT1-25	5311171	8 ... 25
BEF-KHZ-RT1-63	5311172	8 ... 63
BEF-KHZ-RT1-130	5311506	8 ... 130

MZT1

MZT6

RZT1

RZT6

MZT8



BEF-KHZ-PT1

Mounting bracket for cylinder sensors

Mounting bracket for profil-/tie-rod cylinders

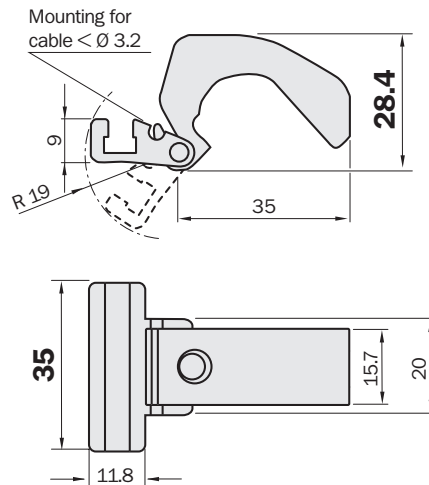
Dimensional drawing

Technical data

Material	Zinc, die-cast
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KHZ-PT1	2022702



MZT1

MZT6

RZT1

RZT6

MZT8



BEF-KHZ-ST1

Mounting bracket for cylinder sensors

Mounting bracket for cylinders with dovetail slot

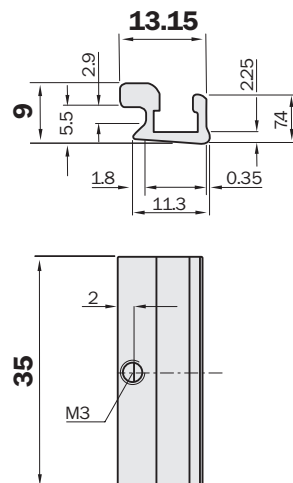
Dimensional drawing

Technical data

Material	Aluminium
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Order information

Type	Order no.
BEF-KHZ-ST1	2022703



MZT1

MZT6

RZT1

RZT6

MZT8



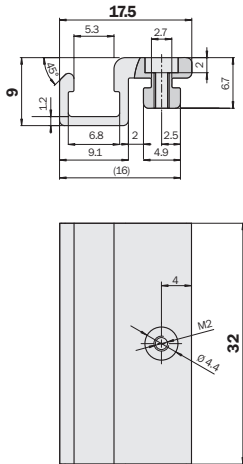
BEF-KHZ-TT1

Mounting bracket for cylinder sensors



Bracket for mounting to SMC rail ECDQ2 (T slot)

Dimensional drawing



Technical data

Material Aluminium

Order information

Type	Order no.
BEF-KHZ-TT1	2046439

MZT1

MZT6

RZT1

RZT6

MZT8

MZ2Q-T



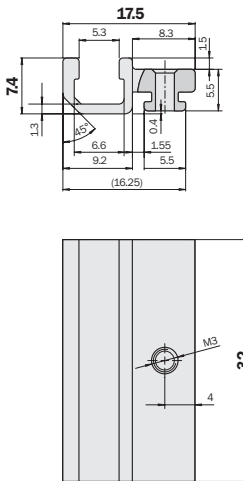
BEF-KHZ-TT2

Mounting bracket for cylinder sensors



Bracket for mounting to SMC rail CDQ2 (T slot)

Dimensional drawing



Technical data

Material Aluminium

Order information

Type	Order no.
BEF-KHZ-TT2	2046440

MZT1

MZT6

RZT1

RZT6

MZT8

MZ2Q-T



BEF-KHZ-TC1

Mounting bracket for cylinder sensors

Bracket for mounting to SMC rail ECDQ2 (C slot)

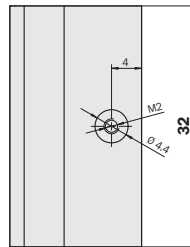
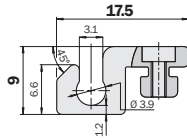
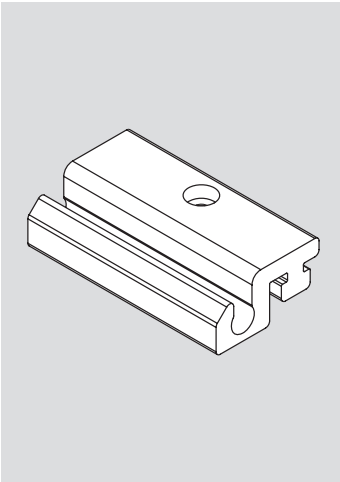
Dimensional drawing

Technical data

Material Aluminium

Order information

Type	Order no.
BEF-KHZ-TC1	2046441



MZN1

RZN1

MZ2Q-C



BEF-KHZ-TC2

Mounting bracket for cylinder sensors

Bracket for mounting to SMC rail CDQ2 (C slot)

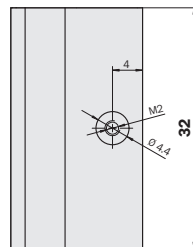
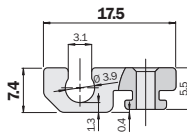
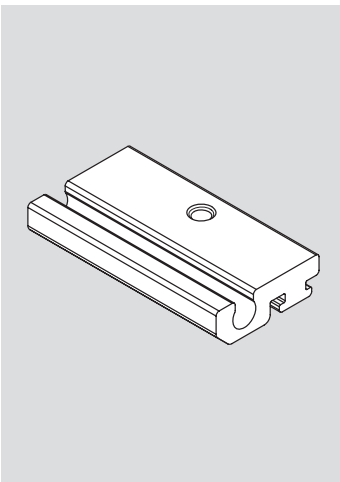
Dimensional drawing

Technical data

Material Aluminium

Order information

Type	Order no.
BEF-KHZ-TC2	2046442



MZN1

RZN1

MZ2Q-C



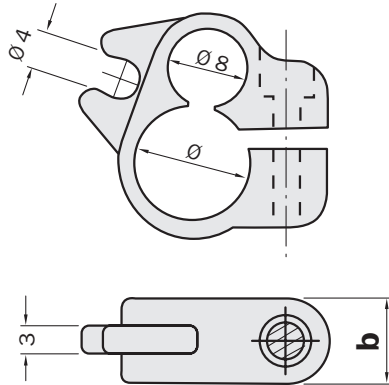
BEF-S-R1-xx

Mounting bracket for cylinder sensors



Cylinder mounting clamps

Dimensional drawing



Technical data

Material	see order informations
Delivery	incl. mounting material

MZR1



Order information

Type	Order no.	Ø clamping range in mm	b in mm	For piston rods Ø in mm
BEF-S-R1-08 ¹⁾	7902337	9.2 ... 10.0	9	8
BEF-S-R1-10 ¹⁾	7901753	10.9 ... 12.0	9	10
BEF-S-R1-12 ¹⁾	7901754	12.9 ... 41.0	9	12
BEF-S-R1-16 ¹⁾	7901755	16.9 ... 18.0	9	16
BEF-S-R1-20 ¹⁾	7901756	21.0 ... 22.0	9	20
BEF-S-R1-25 ¹⁾	7901757	26.1 ... 27.2	9	25
BEF-S-R1-32 ²⁾	7901758	33.0 ... 35.0	10	32
BEF-S-R1-40 ²⁾	7901759	41.4 ... 42.5	10	40
BEF-S-R1-50 ²⁾	7901760	52.5 ... 54.0	10	50
BEF-S-R1-63 ²⁾	7901761	66.0 ... 67.0	10	63

¹⁾ PBTP plastic

²⁾ POM plastic

BEF-KS-U2-P1

Mounting bracket for cylinder sensors

Clamping bracket for profil rod cylinder up to a rod width of 13 mm

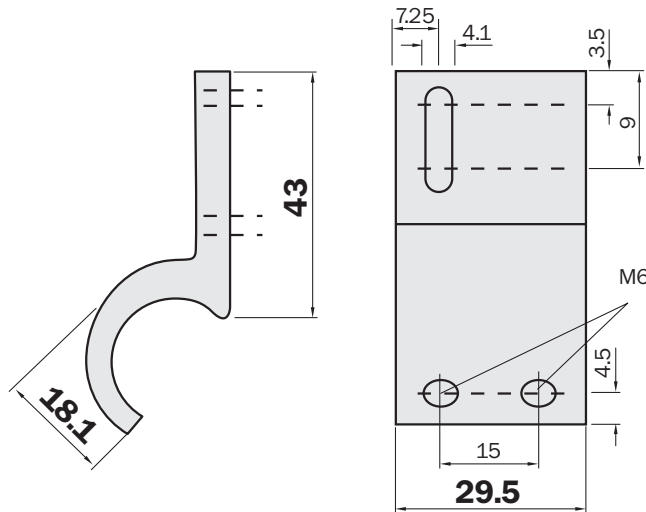
Dimensional drawing

Technical data

Material	Aluminium
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KS-U2-P1	2019824



MZU2



BEF-KS-U2-P2

Mounting bracket for cylinder sensors

Clamping bracket for profil rod cylinder up to a rod width of 18 mm

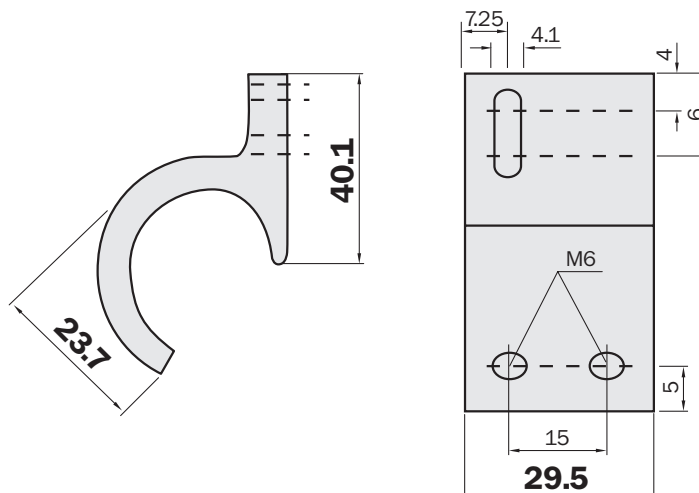
Dimensional drawing

Technical data

Material	Aluminium
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KS-U2-P2	2019823



MZU2



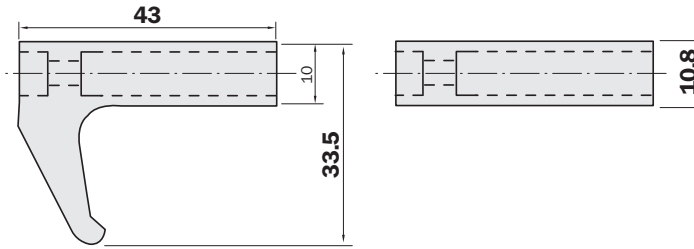
BEF-KS-U2-S1

Mounting bracket for cylinder sensors



Clamping bracket for tie-rod cylinder

Dimensional drawing



Technical data

Material	Zinc, die-cast
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KS-U2-S1	4030922

MZU2



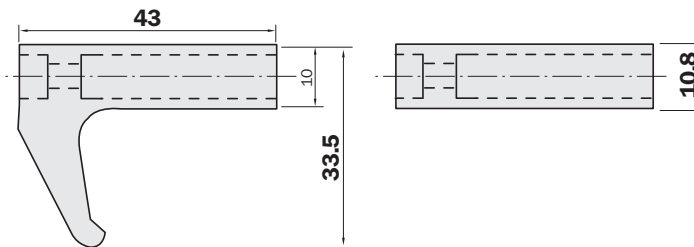
BEF-KS-U2-S1T

Mounting bracket for cylinder sensors



Clamping bracket for tie-rod cylinder, teflon coated

Dimensional drawing



Technical data

Material	Zinc, die-cast teflon coated
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KS-U2-S1T	4031632

MZU2



BEF-KS-U2-T1

Mounting bracket for cylinder sensors

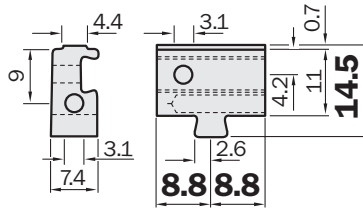


MZU2



Clamping bracket for cylinder with T-slot or dovetail slot

Dimensional drawing



Technical data

Material	Aluminium
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KS-U2-T1	2019822

BEF-S-R2-xx

Mounting bracket for cylinder sensors

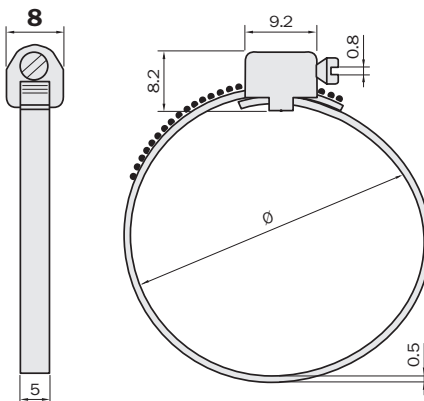


MZR2



Mounting bracket for round body cylinder

Dimensional drawing



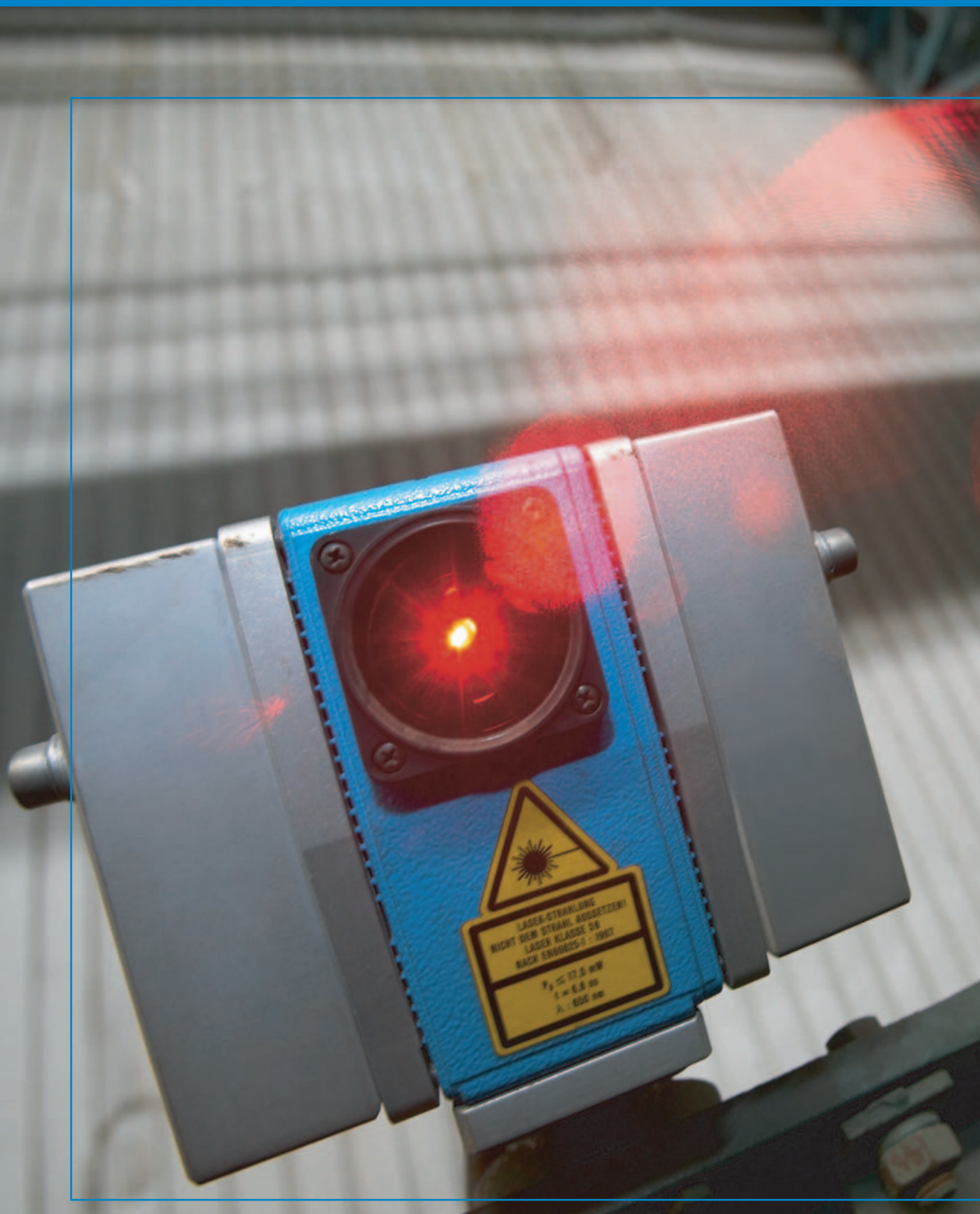
Technical data

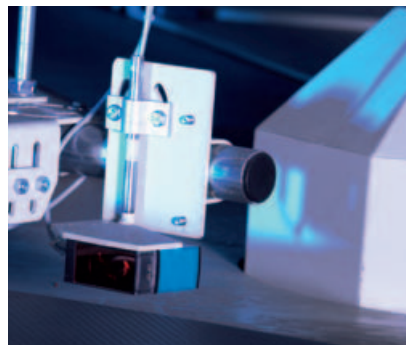
Material	Stainless steel
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Order information

Type	Order no.	Ø clamping range in mm	For piston rods Ø in mm
BEF-S-R2-16	7901762	18 ... 29	8 ... 16
BEF-S-R2-25	7901763	28 ... 39	20 ... 25
BEF-S-R2-30	7901764	38 ... 49	32
BEF-S-R2-40	7901765	48 ... 59	40
BEF-S-R2-50	7901766	58 ... 69	50
BEF-S-R2-63	7901767	65 ... 79	63
BEF-S-R2-80	7901768	85 ... 100	80
BEF-S-R2-100	7901769	95 ... 110	100

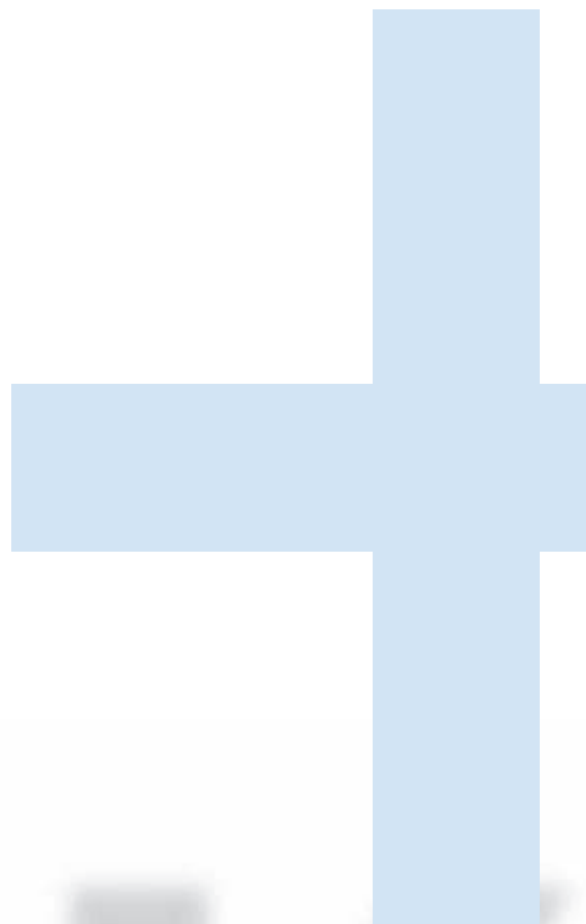
Special accessories – for all extraordinary applications





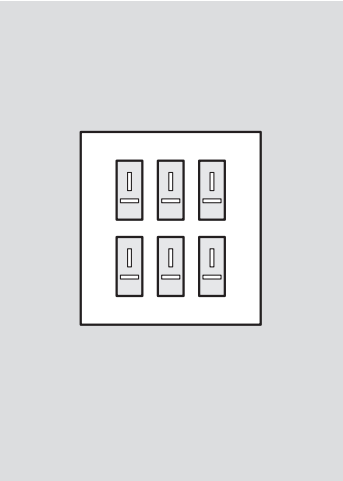
We have thought of everything: polarisation filter for reducing mutual interference of through-beam photoelectric switches, as well as slotted lens masks for focussing the emitted light paths, extend the applications for SICK sensors enormously. And, for high-temperature uses of SICK sensors, cooling plates for water cooling are the ultimate addition.

SPECIAL ACCESSORIES



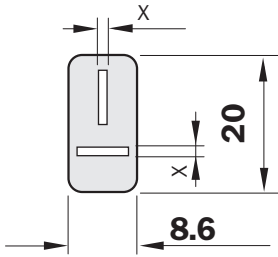
BL-140

Masks



Slotted lens mask card, self-adhesive masks for sender and receiver

Dimensional drawing



Technical data

Slot width X	0.5 mm
	1.0 mm
	2.0 mm

Order information

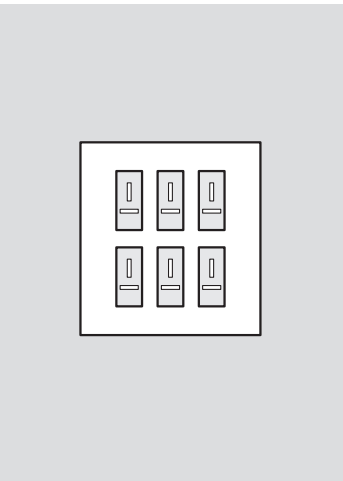
Type	Order no.
BL-140	5308458

WS/WE140-2



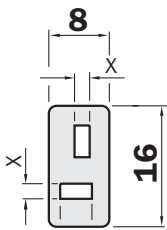
BL-150-10

Masks



Slotted lens mask card, self-adhesive masks for sender and receiver

Dimensional drawing



Technical data

Slot width X	0.5 mm
	1.0 mm
	2.0 mm

Order information

Type	Order no.
BL-150-10	5306216

WS/WE150



BL-160-10

Slotted lens mask card, self-adhesive masks for sender and receiver

Masks

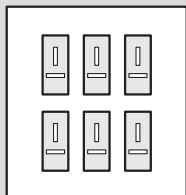
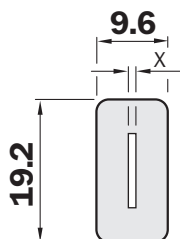
Dimensional drawing

Technical data

Slot width X	0.5 mm
	1.0 mm
	2.0 mm

Order information

Type	Order no.
BL-160-10	5305196



WS/WE160



BL-160-SK

Slotted lens mask card, self-adhesive masks for sender and receiver

Masks

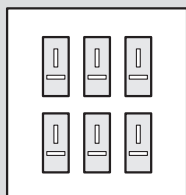
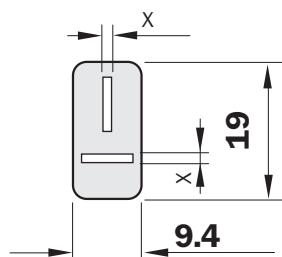
Dimensional drawing

Technical data

Slot width X	0.5 mm
	1.0 mm
	2.0 mm

Order information

Type	Order no.
BL-160-SK	5310718



WS/WE160



BL-170-10

Masks

2 self-adhesive slotted lens masks for sender and receiver

Dimensional drawing

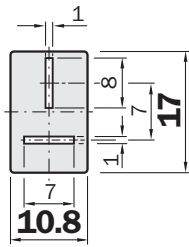
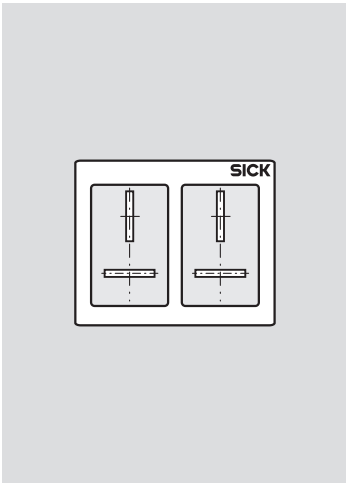
Order information

Type

BL-170-10

Order no.

5305687



WS/WE170



BL-9-2

Masks

Slotted lens mask card, self-adhesive masks for sender and receiver

Dimensional drawing

Technical data

Slot width X

0.5 mm
1.0 mm
1.5 mm
2.0 mm

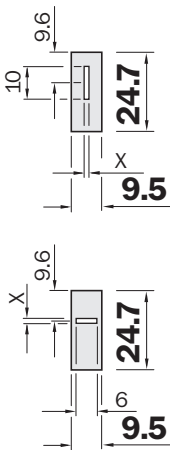
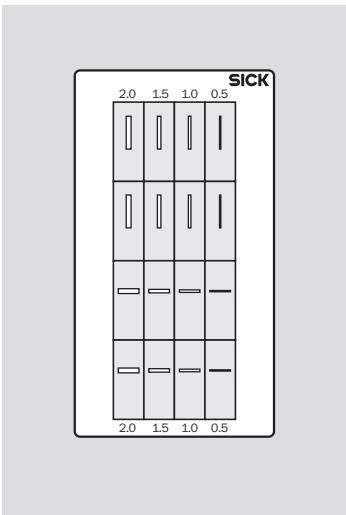
Order information

Type

BL-9-2

Order no.

4033253

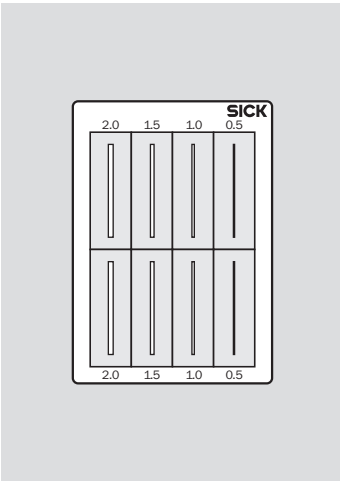


WS/WE9-2



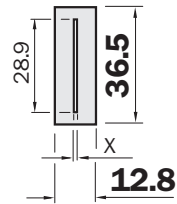
BL-12-SKN

Masks



Slotted lens mask card, self-adhesive masks for sender and receiver

Dimensional drawing



Technical data

Slot width X	0.5 mm
	1.0 mm
	1.5 mm
	2.0 mm

Order information

Type	Order no.
BL12-SKN	4031815

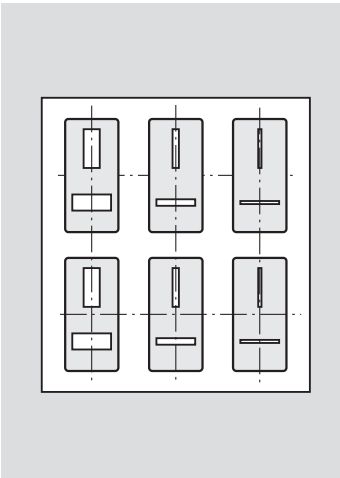
WSE11-2

WSE12-3



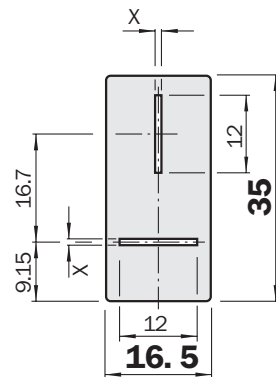
BL-260-SK

Masks



Slotted lens mask card, self-adhesive masks for sender and receiver

Dimensional drawing



Technical data

Slot width X	0.5 mm
	1.0 mm
	2.0 mm

Order information

Type	Order no.
BL-260-SK	5308773

WS/WE260¹⁾

¹⁾ DC types

BL-100-POLF

Polarisation filter

Front polarisation filter

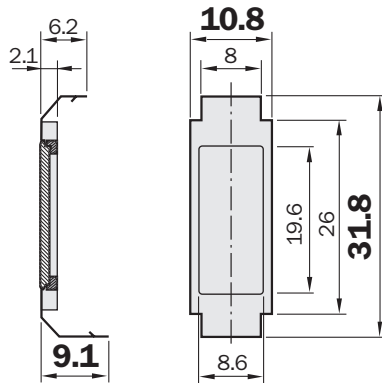
Dimensional drawing

Technical data

Delivery	2 x X- und 2 x Y-polarisation
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Order information

Type	Order no.
BL-100-POLF	5314702



WS/WE8

WS/WE100



BL-140-POLF

Polarisation filter

Front polarisation filter

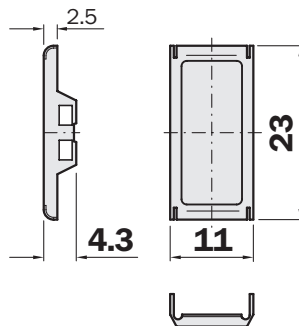
Dimensional drawing

Technical data

Delivery	2 x X- und 2 x Y-polarisation
----------	-------------------------------

Order information

Type	Order no.
BL-140-POLF	5308457



WS/WE140-2



BL-170-POLF

Polarisation filter

Front polarisation filter

Dimensional drawing

Technical data

Delivery

2 x X- und 2 x Y-
polarisation

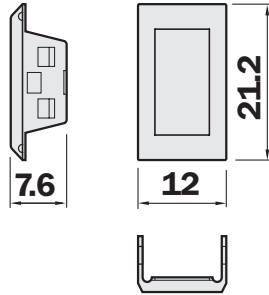
Order information

Type

Order no.

BL-170-POLF

5305688



WS/WE170



BEF-KP-W24

Cooling plates

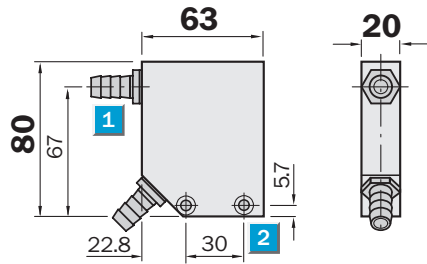


W24-2



Cooling plate for water cooling

Dimensional drawing



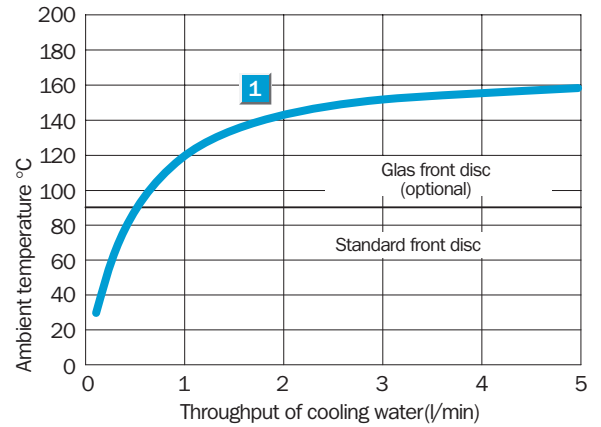
- 1** Hose nozzle R 1/4"
- 2** Tapped hole for countersunk screw M5

Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KP-W24	2015071



- 1** Temperature for cooling water 20 °C, water pressure max. 5 bar

BEF-KP-W45

Cooling plates

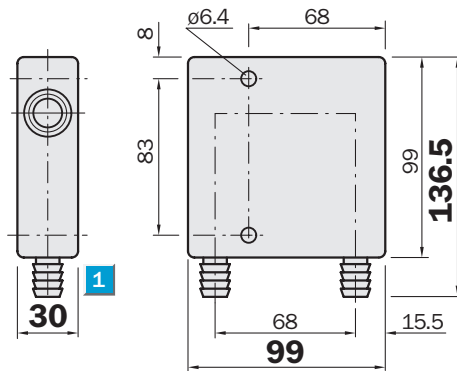


W45



Cooling plate for water cooling

Dimensional drawing



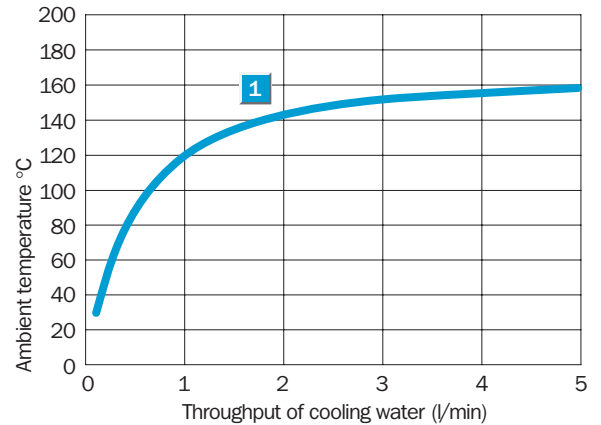
- 1** Hose nozzle R 1/2"

Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KP-W45	2011435



- 1** Temperature for cooling water 20 °C, water pressure max. 5 bar

BEF-KPM-DME

Cooling plates



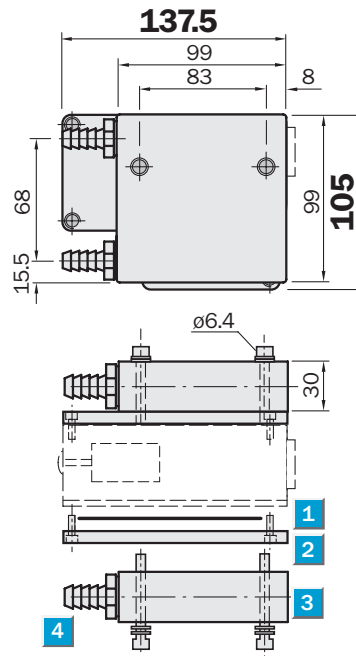
DME2000

DME3000



Cooling plate assembly kit for water cooling

Dimensional drawing



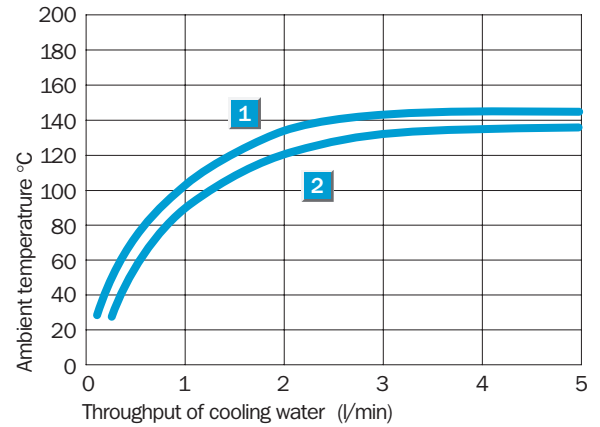
- 1 Heat conduction cloth (2 x)
- 2 Adapter plate (2 x)
- 3 Cooling plate (2 x)
- 4 Hose nozzle R 1/2"

Technical data

Material	Aluminium, anodised
Delivery	incl. mounting material

Order information

Type	Order no.
BEF-KPM-DME	2014457



- 1 Temperature for cooling water 20 °C
- 2 Temperature for cooling water 30 °C





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- Detecting volume, position, and contours of objects and surroundings with laser measurement systems



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