

We put gas springs
in movement



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INTRODUCTION

Our company is the first enterprise in the world which succeeded to develop light and fine release heads for locking gas springs, which reduces mechanically the required valve lifter release force of the gas spring by up to 97 %. The range of application for locking gas springs has considerably been extended by this feature.

Instead of large and plump lever mechanics a small key element can be used for many applications to release the gas spring. This frictional forces in the bowden wire have also been reduced dramatically, thus prolongating the working life. The light and fine release allows a unique gas spring regulation with the lowest efforts. Expensive constructions and large operation elements belong to the past.

By miniaturization and reduction of the operating elements new design options are possible, which allow sophisticated designs. The piston speed of the gas spring is freely adjustable and allows thus a maximum of mobility and flexibility. Due to the finest adjustment possibilities of the gas spring piston an optimum adaptation of the elements controlled by the gas spring is achieved.

The system is robust, stable, compact and space-saving with smallest dimensions and lowest weight. The mounting is easy without any special tools. The thick and rigid bowden wire can be replaced by a fine and flexible bowden wire. The light and fine release is maintenance-free and easy to handle. Thus it can be applied flexibly, universally and without problems and improves the quality and the comfort of the end products. Mounting times, material input, and production times are also reduced. Due to our special light and fine release head with three connections it is even possible to control two or three operation elements by one single gas spring.

On the following pages we want to present our widespread range of products. We think that you will find among them the right light and fine release head and the corresponding keyelement for your application.

PRODUCT CHARACTERISTICS



General Informations:

- valve lifter release force for gas spring reduced to approx 97 %
- Infinitely variable speed control of the gas springs piston
- maintenance-free system
- low weight
- compact, small installation size
- free positioning
- easy installation without more labor time
- only small operating elements required
- great number of combinations of operating elements with gas spring
- for demanding and attractive design possibilities
- equipped with standard steel, stainless steel, or plastic bowden cables fitted for each standard gas spring

Fields of Applications:

- | | | | |
|------------------|----------------------|---------------------|-----------------------|
| ● hospital beds | ● gynaecology chairs | ● lifting chairs | ● bus seats |
| ● care beds | ● delivery chairs | ● television chairs | ● train seats |
| ● standard beds | ● massage couch | ● executive chairs | ● airplane seats |
| ● foldaway beds | ● rest couch | ● rest chairs | ● cinema seats |
| ● lath grids | ● treatment couch | ● patient lifters | ● concert chair |
| ● wheelchairs | ● working tables | ● toilet lifters | ● theatre seats |
| ● care chairs | ● office tables | ● fitness units | ● waiting room chairs |
| ● therapy chairs | ● surgery tables | ● sporting units | ● passenger seats |
| ● office chairs | ● handicapped tables | ● car seats | etc. |

Operating Elements:

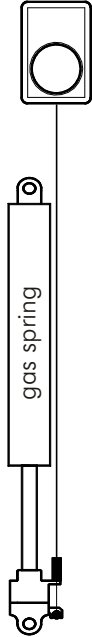
- built-in push buttons
- externally push buttons
- remote release systems
- flat push button
- key block
- operation levers

Applications:

- new constructions
- replacement of old systems

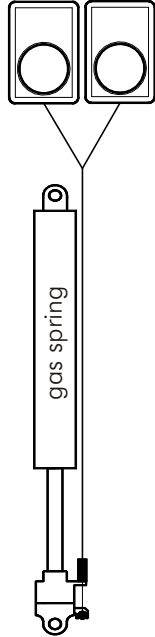
COMBINATION POSSIBILITIES

1 keyelement
1 gas spring



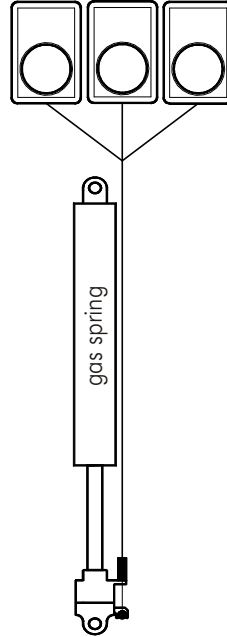
release head
ULA or LA

2 keyelements
1 gas spring



release head
ULA or LA

3 keyelements
1 gas spring



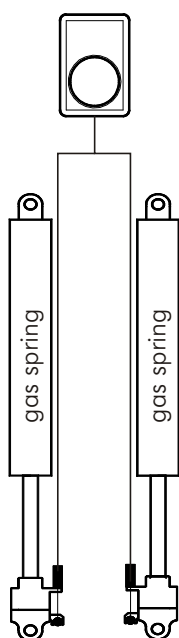
release head
ULA or LA

1 keyelement
1 gas spring



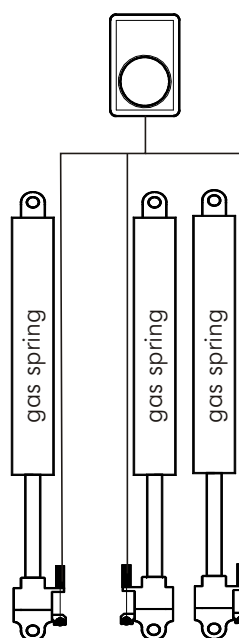
release head
ULA or LA

1 keyelement
2 gas springs



release heads
ULA or LA

1 keyelement
3 gas springs



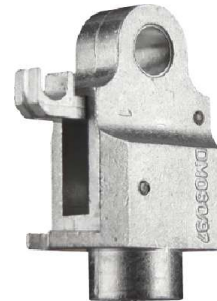
release heads
ULA or LA

ULTRA-LIGHT RELEASE HEADS



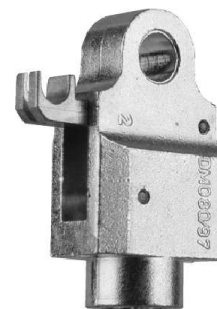
dimensions	: see page 8
material	: zinc pressure die-casting/steel
gear ratio	: 1:21
release power	: about 1 % of F1 of the gas spring
connectable bowden wire	: 1
valve lifter release gas spring	: max. 1 mm
total distance for actuating	: about 15 mm
speed regulation gas spring	: very fine
fields of applications	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is operated by a bowden cable.

order discription: ULA-ST



dimensions	: see page 9
material	: zinc pressure die-casting/steel
gear ratio	: 1:21
release power	: about 1 % of F1 of the gas spring
operating elements	: 1
valve lifter release gas spring	: max. 1 mm
total distance for actuating	: about 15 mm
speed regulation gas spring	: very fine
fields of application	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is operated by a linkage or a traction rop

order discription: ULA-DIREKT



dimensions	: see page 10
material	: zinc pressure die-casting/steel
gear ratio	: 1:21
release power	: about 1 % of F1 of the gas spring
connectable bowden wire	: max. 3
valve lifter release gas spring	: max. 1 mm
total distance for actuating	: about 15 mm
speed regulation gas spring	: very fine
fields of application	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is operated by a bowden cable. This alternative makes it possible to connect up to 3 actuating elements.

order discription: ULA-SOHE-3A

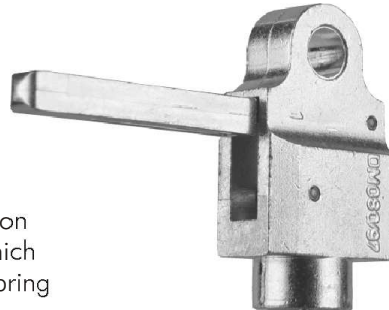


ULTRA-LIGHT RELEASE HEADS



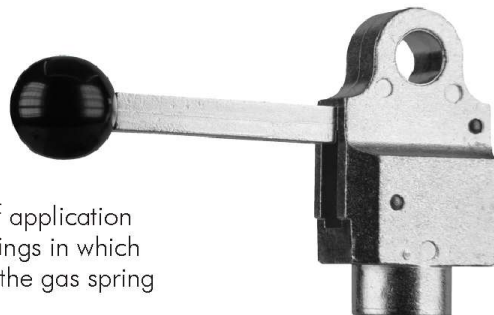
dimensions	: see page 11
material	: zinc pressure die-casting/steel
gear ratio	: 1:48
release power	: about 0,5 % of F1 of the gas spring
valve lifter release gas spring	: max. 1 mm
total distance for actuating	: about 33 mm
speed regulation gas spring	: very fine
fields of application	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is freely accessible.

order discription: ULA-SOHE67

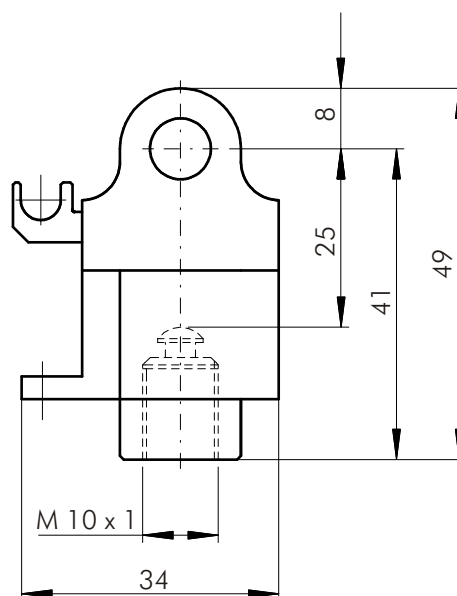
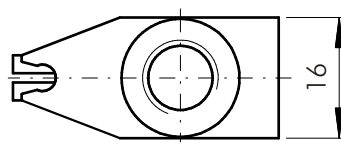
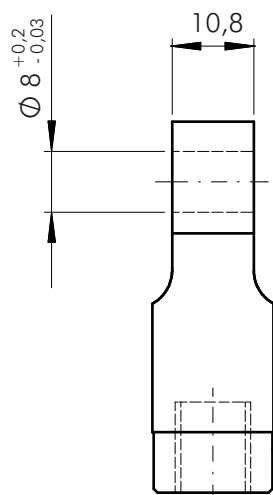


dimensions	: see page 12
material	: zinc pressure die-casting/steel
gear ratio	: 1:48
release power	: about 0,5 % of F1 of the gas spring
valve lifter release gas spring	: max. 1 mm
total distance for actuating	: about 33 mm
speed regulation gas spring	: very fine
fields of application	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is freely accessible.

order discription: ULA-SOHE67-KU

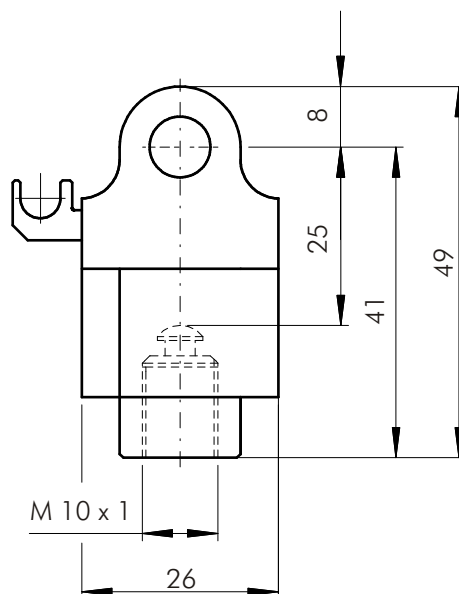
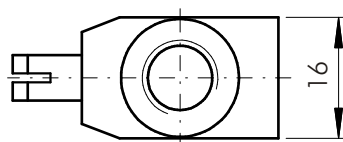
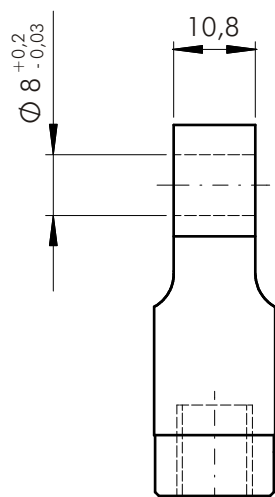


accessories : [see page 52](#)



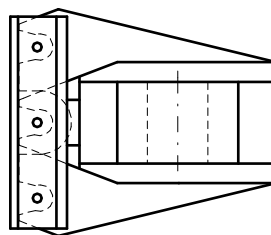
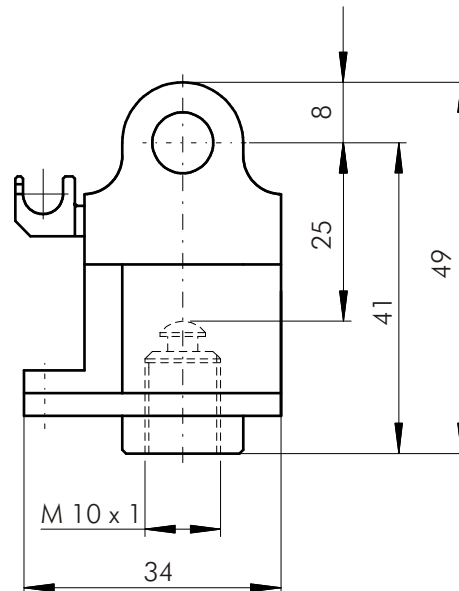
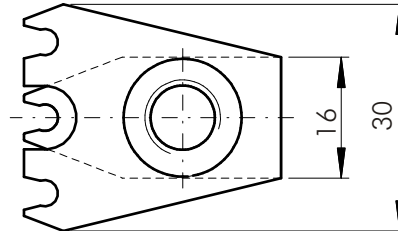
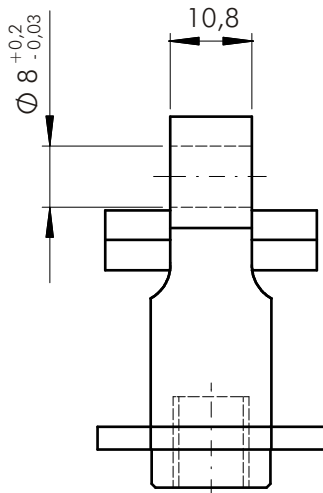
dimensions in mm / we reserve the rights to make modifications

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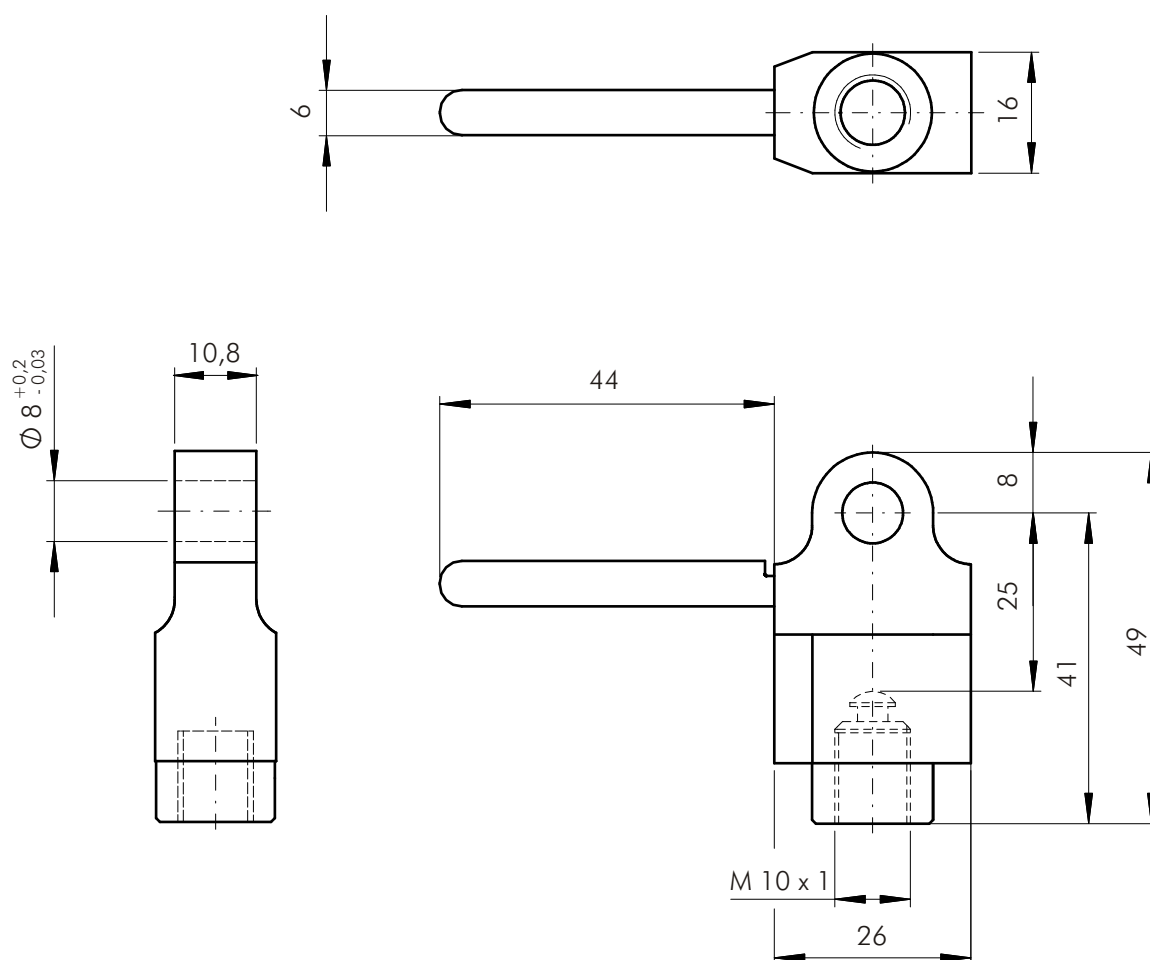
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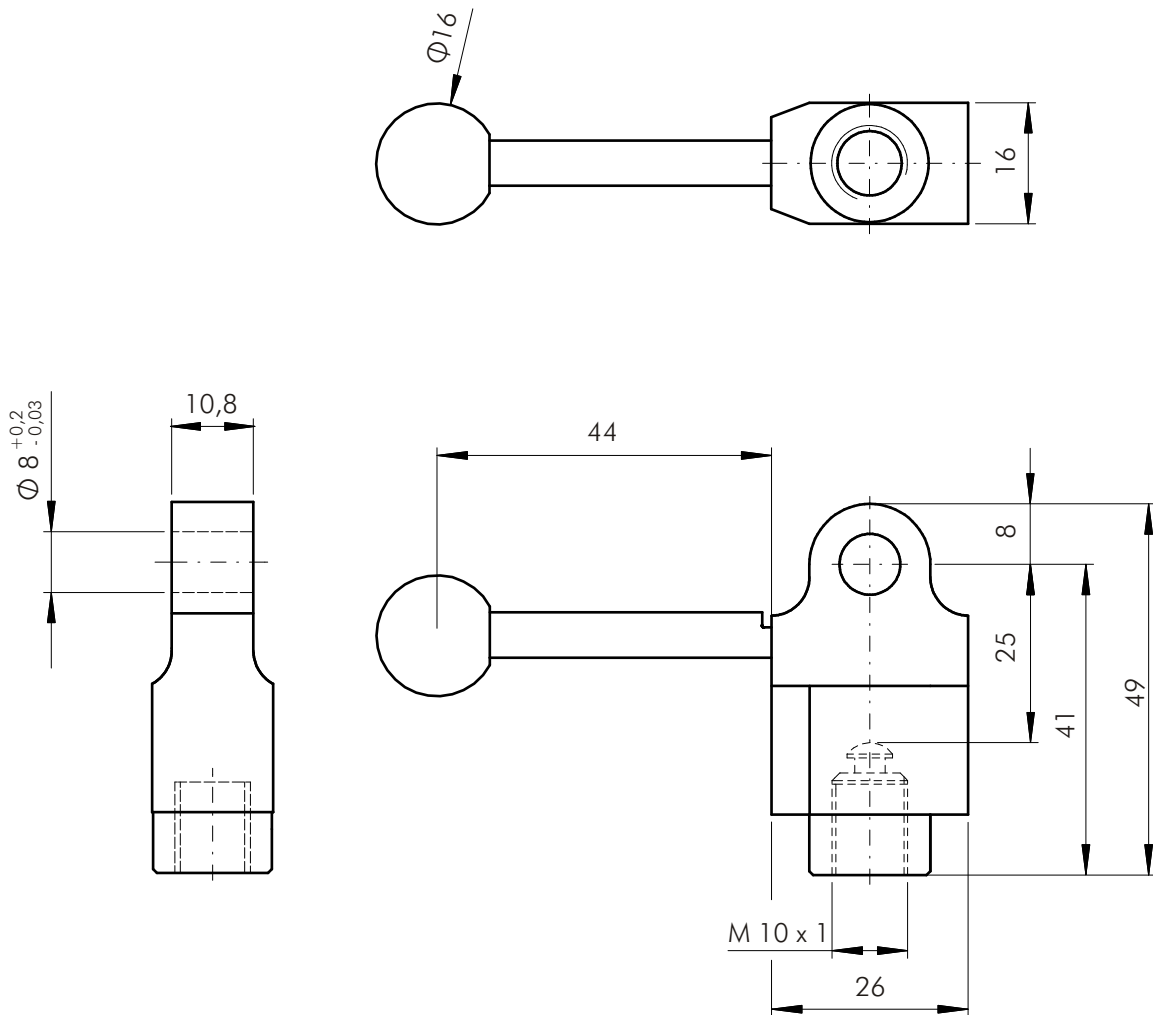
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dimensions in mm / we reserve the rights to make modifications

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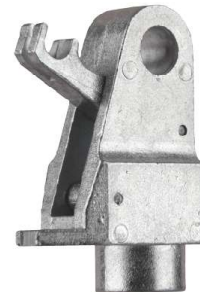
dimensions in mm / we reserve the rights to make modifications

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LIGHT RELEASE HEADS

dimensions : [see page 15](#)
 material : zinc pressure die-casting/steel
 gear ratio : 1:10
 release power : about 2 % of F1 of the gas spring
 connectable bowden wire : 1
 valve lifter release
 gas spring : maximum 2,5 mm
 total distance for actuating : about 23 mm
 speed regulation gas spring : fine
 fields of application : in nearly all fields of application for lockable gas springs in which the release head of the gas spring is operated by a bowden cable.

order discription: LA-ST



dimensions : [see page 16](#)
 material : zinc pressure die-casting/steel
 gear ratio : 1:10
 release power : about 2 % of F1 of the gas spring
 operating elements : 1
 valve lifter release
 gas spring : maximum 2,5 mm
 total distance for actuating : about 23 mm
 speed regulation gas spring : fine
 fields of application : in nearly all fields of application for lockable gas springs in which the release head of the gas spring is operated by a linkage or a traction rope.

order discription: LA-DIREKT



dimensions : [see page 17](#)
 material : zinc pressure die-casting/steel
 gear ratio : 1:10
 release power : about 2 % of F1 of the gas spring
 connectable bowden wire : max. 3
 valve lifter release
 gas spring : maximum 2,5 mm
 total distance for actuating : about 23 mm
 speed regulation gas spring : fine
 fields of application : in nearly all fields of application for lockable gas springs in which the release head of the gas spring is operated by a bowden cable. This alternative makes it possible to connect up to 3 actuating elements.

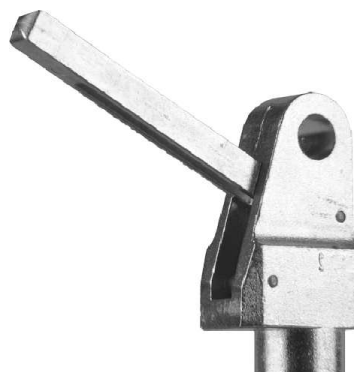
order discription: LA-SOHE-3A



LIGHT RELEASE HEADS

dimensions	: see page 18
material	: zinc pressure die-casting/steel
gear ratio	: 1:20
release power	: about 1 % of F1 of the gas spring
valve lifter release gas spring	: max. 2,5 mm
total distance for actuating	: about 48 mm
speed regulation gas spring	: fine
fields of application	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is freely accessible.

order discription: LA-SOHE67

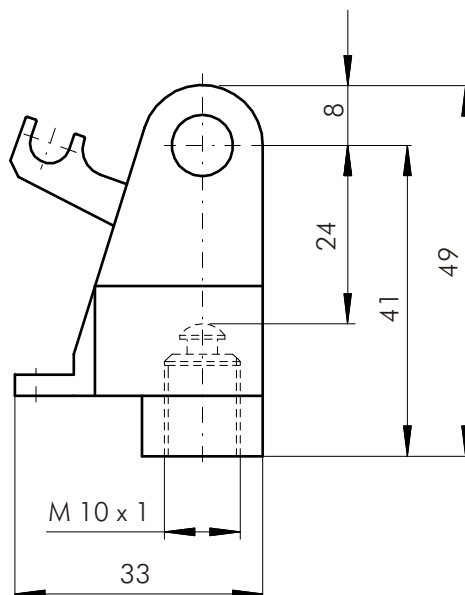
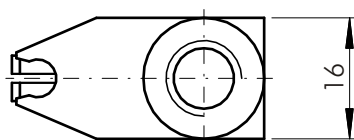
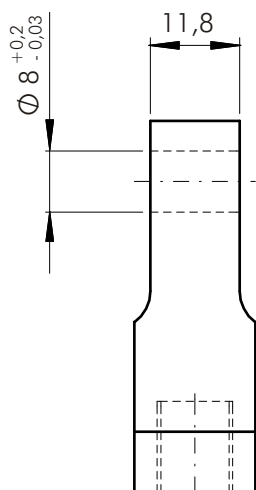


dimensions	: see page 19
material	: zinc pressure die-casting/steel
gear ratio	: 1:20
release power	: about 1 % of F1 of the gas spring
valve lifter release gas spring	: max. 2,5 mm
total distance for actuating	: about 48 mm
speed regulation gas spring	: fine
fields of application	: in nearly all fields of application for lockable gas springs in which the release head of the gas spring is freely accessible.

order discription: LA-SOHE67-KU

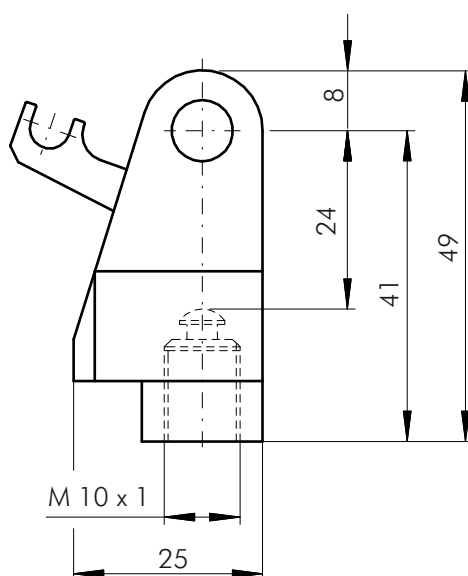
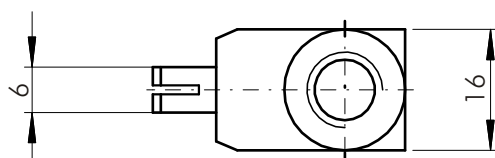
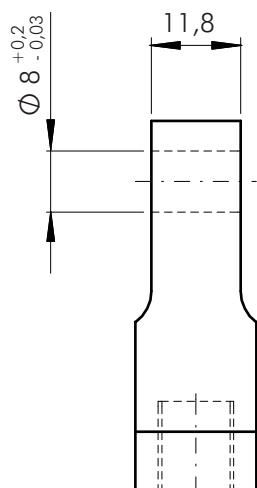


accessories	: see page 52
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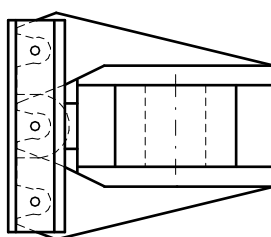
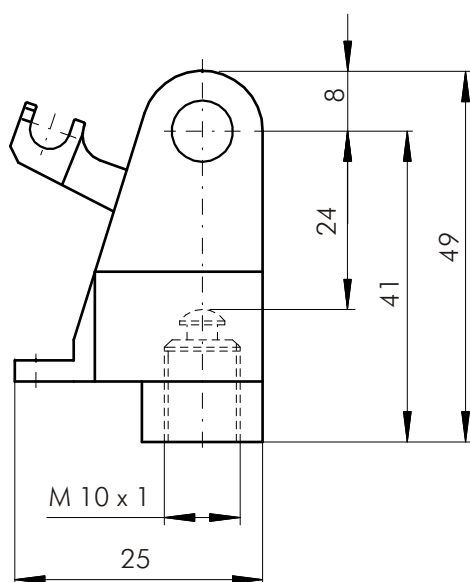
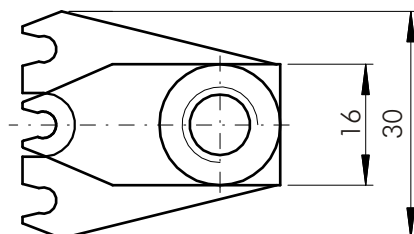
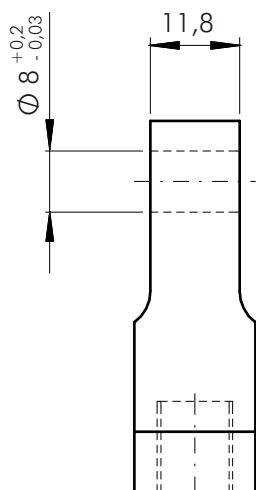
dimensions in mm / we reserve the rights to make modifications

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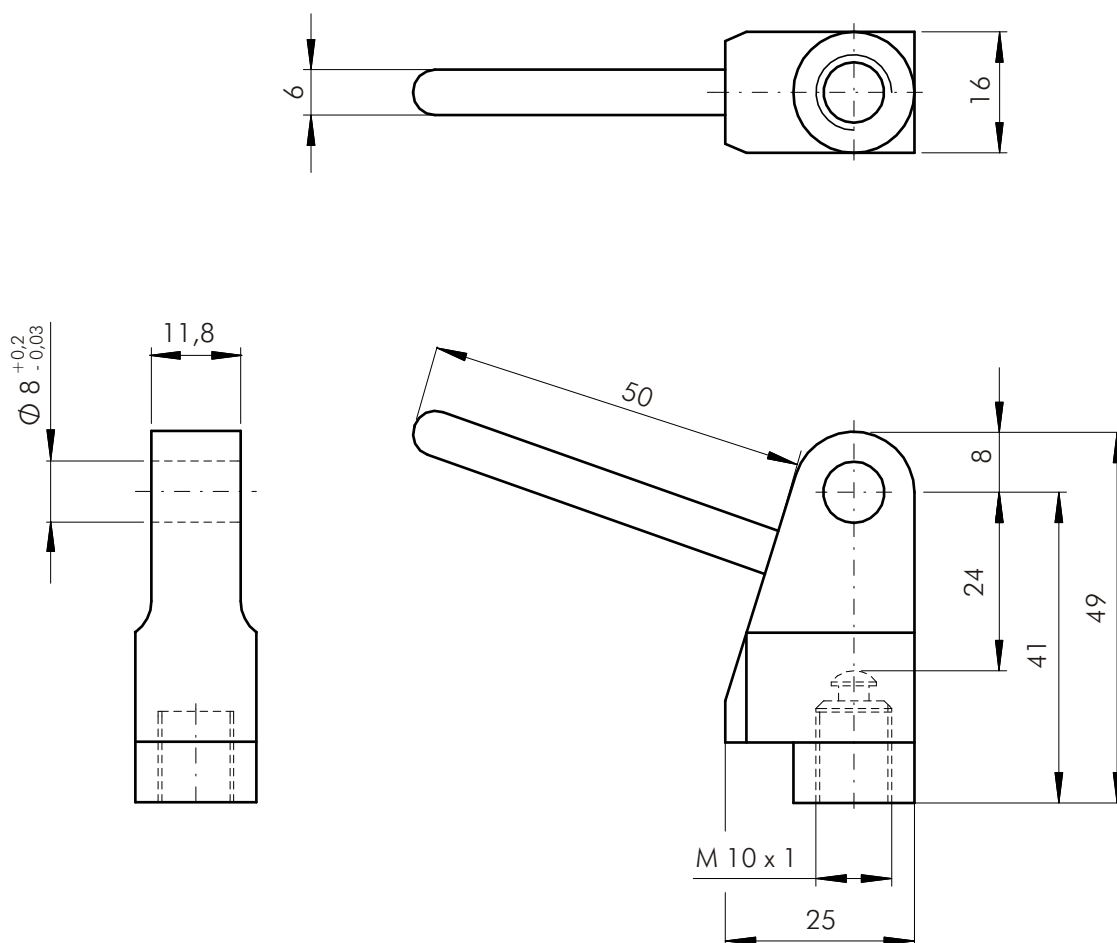
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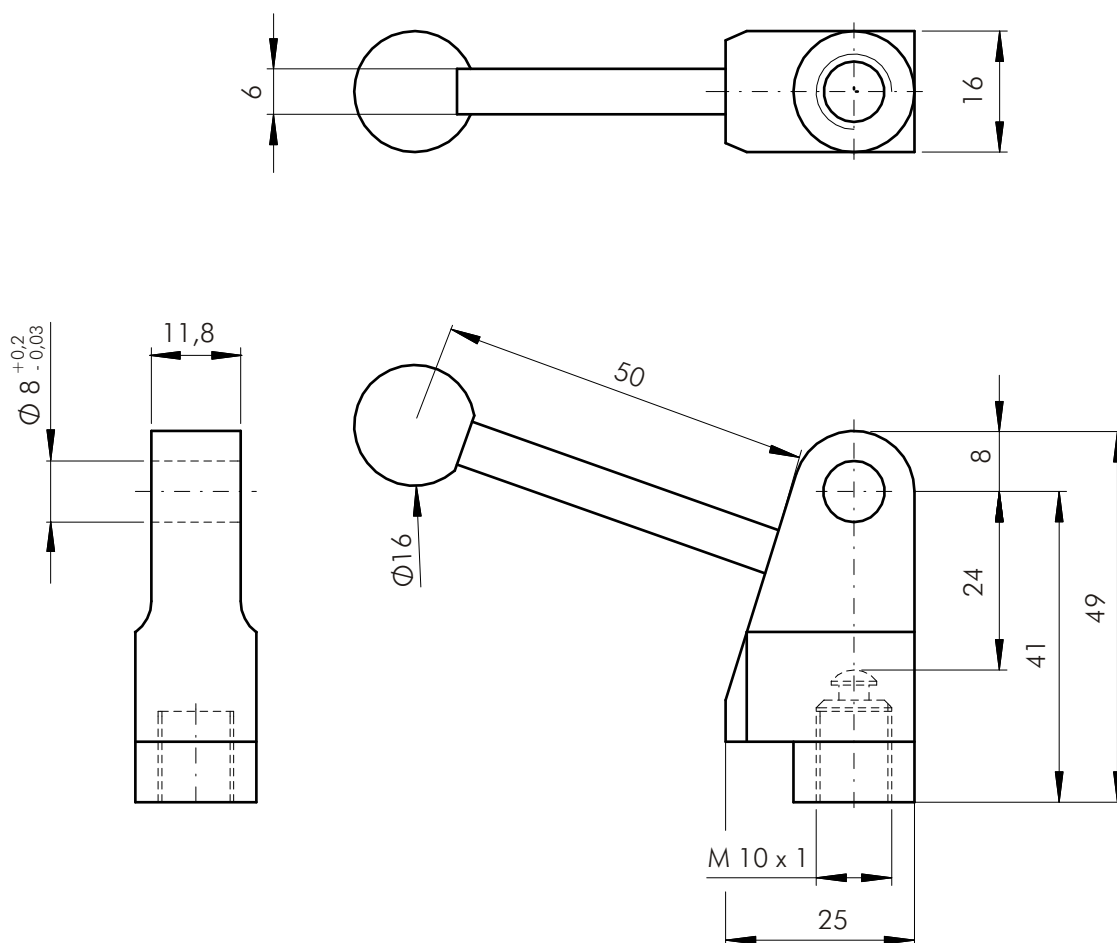
dimensions in mm / we reserve the rights to make modifications

[<< Index LA](#)



dimensions in mm / we reserve the rights to make modifications

[<< Index LA](#)



dimensions in mm / we reserve the rights to make modifications

[<< Index LA](#)



BUILT-IN PUSH BUTTONS

installation dimensions : [see page 27](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force : 800 gramme
on push button : 800 gramme
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-302924F



installation dimensions : [see page 28](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force : 800 gramme
on push button : 800 gramme
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-302924H



installation dimensions : [see page 29](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force : 800 gramme
on push button : 800 gramme
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-332924F



BUILT-IN PUSH BUTTONS

installation dimensions : [see page 30](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force : 800 gramme
on push button : 800 gramme
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-332924H



installation dimensions : [see page 31](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force : 800 gramme
on push button : 800 gramme
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-392924F



installation dimensions : [see page 32](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force : 800 gramme
on push button : 800 gramme
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-392924H



BUILT-IN PUSH BUTTONS

installation dimensions : [see page 33](#)
material casing/push button : aluminum/aluminum
color of casing : aluminum natural
color of push button : aluminum natural
way to actuate : 12 mm
gear ratio : 2:1
usable gas springs : 1
max. cable force :
on push button : 800 gr.
length of bowden wir : 25/50/75/100/125/150 cm

order discription: EBT-282218W

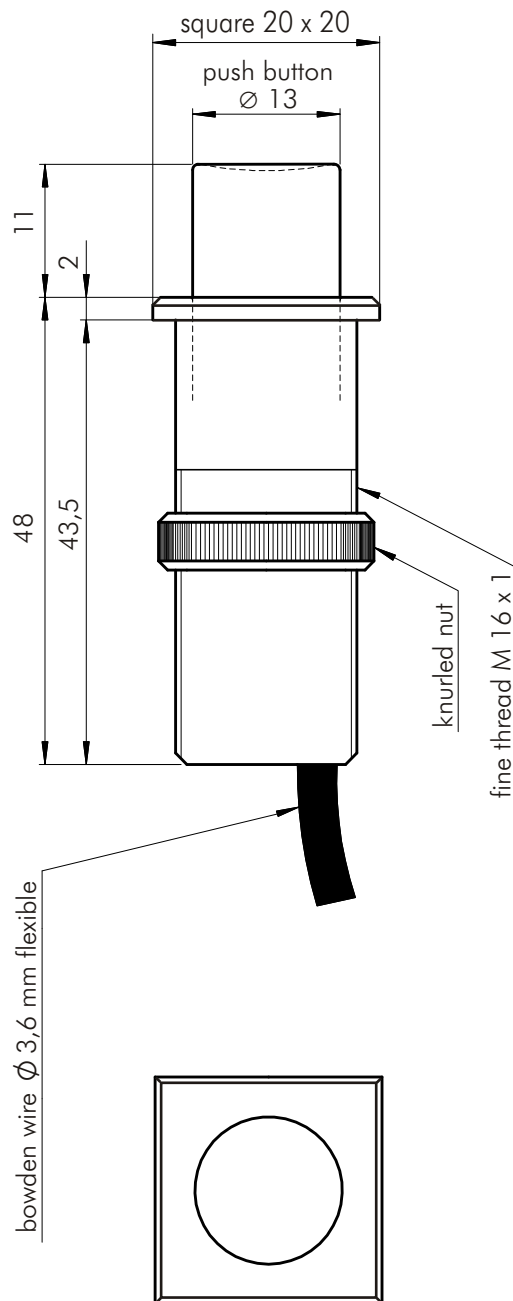


NEW

installation dimensions : [see page 34](#)
material casing/push button : aluminum/plastic
color of casing : electrolysis aluminum
black or natural,
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force :
on push button : 800 gr.
length of bowden wire : 25/50/75/100/125/150 cm

order discription: EBT-332960P

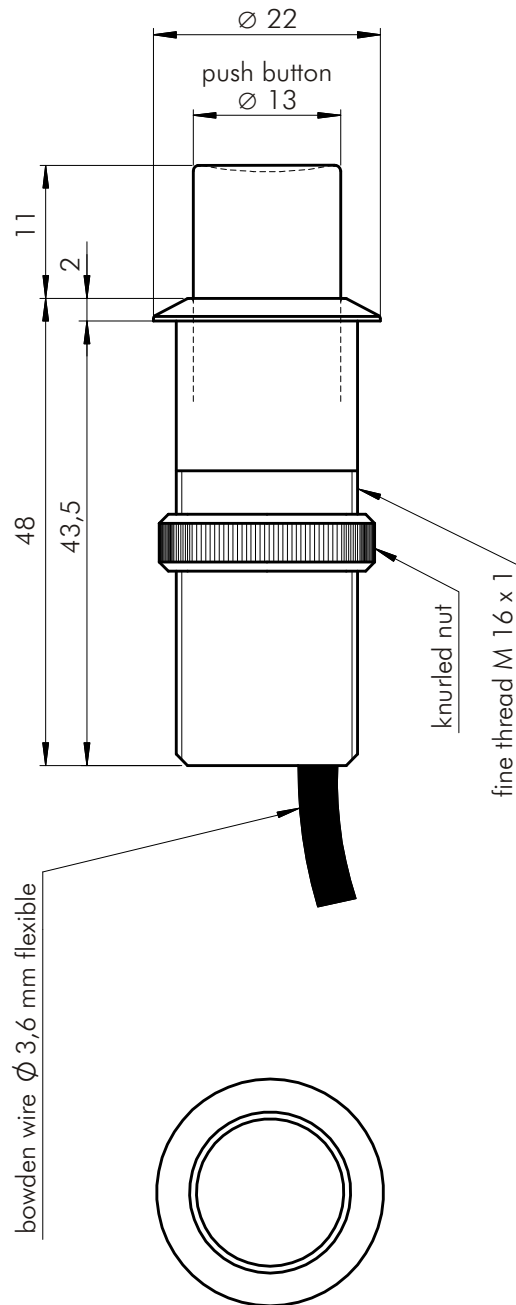




dimensions in mm / we reserve the rights to make modifications

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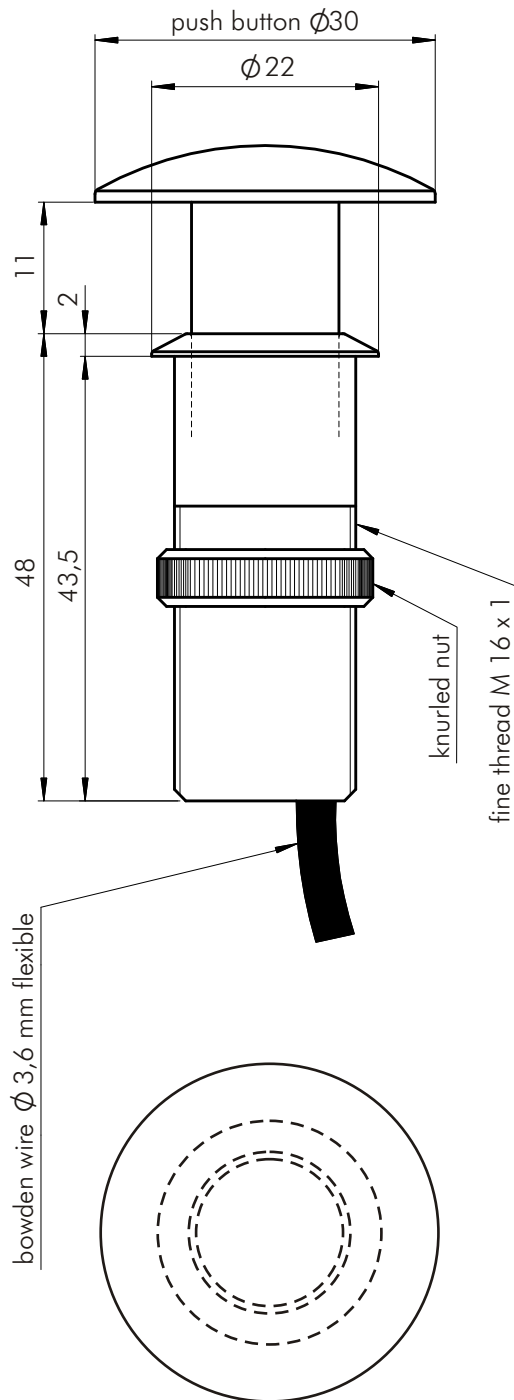
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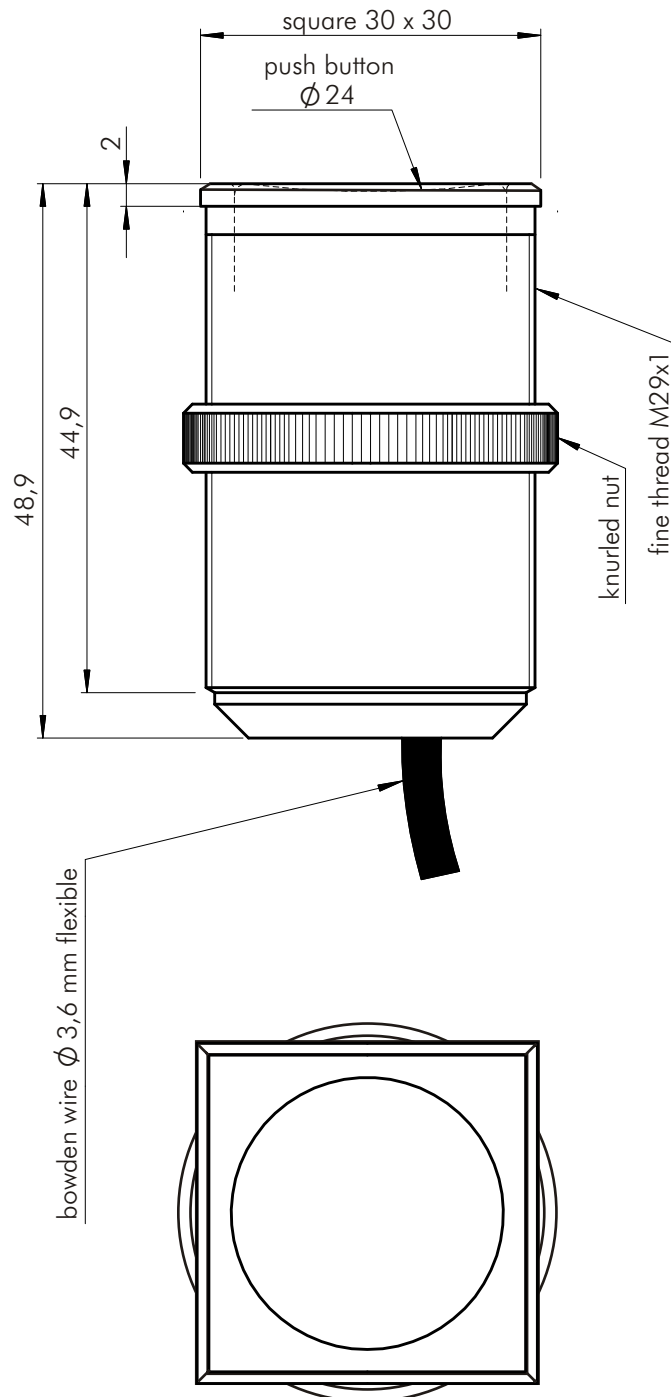
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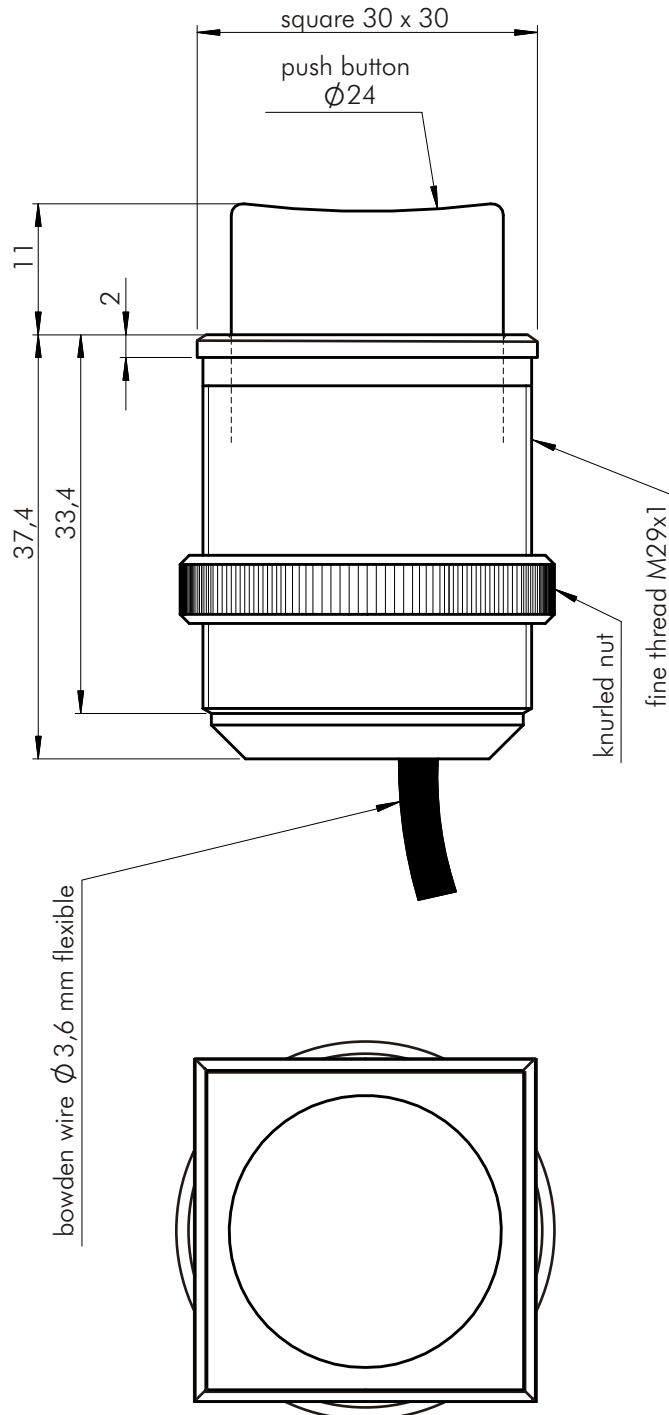
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dimensions in mm / we reserve the rights to make modifications

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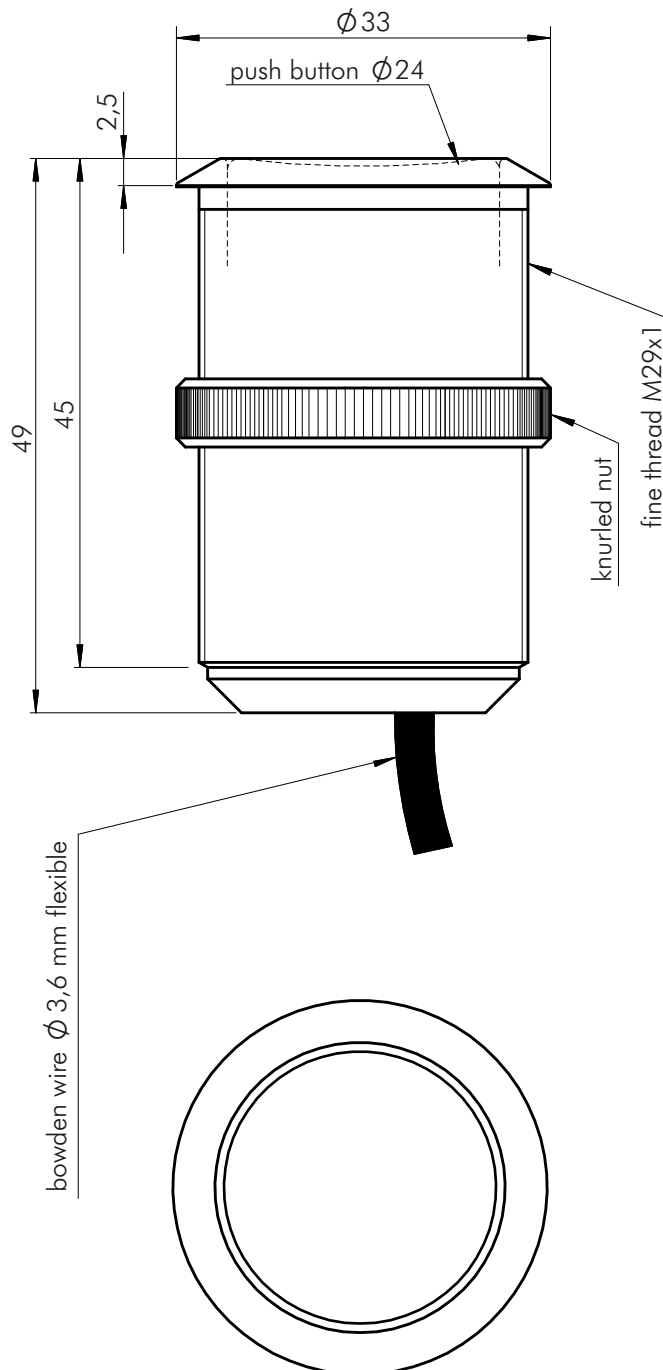
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dimensions in mm / we reserve the rights to make modifications

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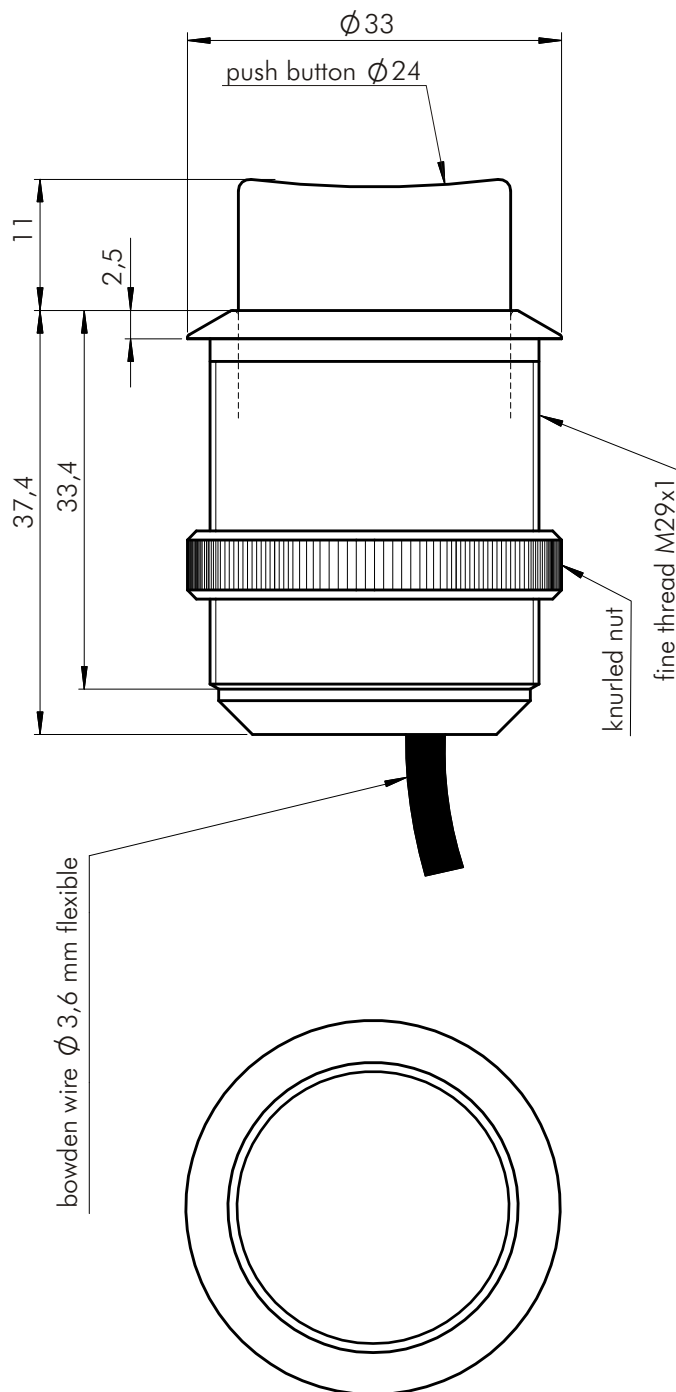
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dimensions in mm / we reserve the rights to make modifications

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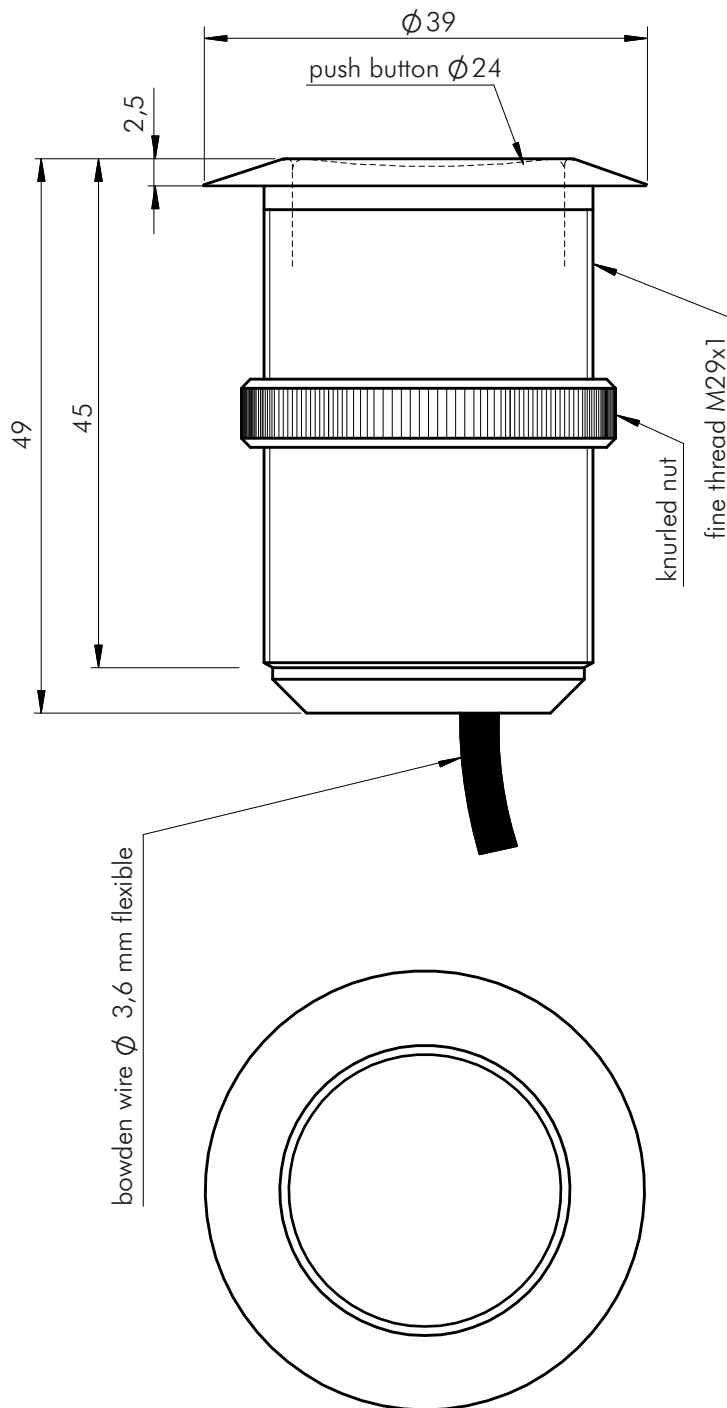
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dimensions in mm / we reserve the rights to make modifications

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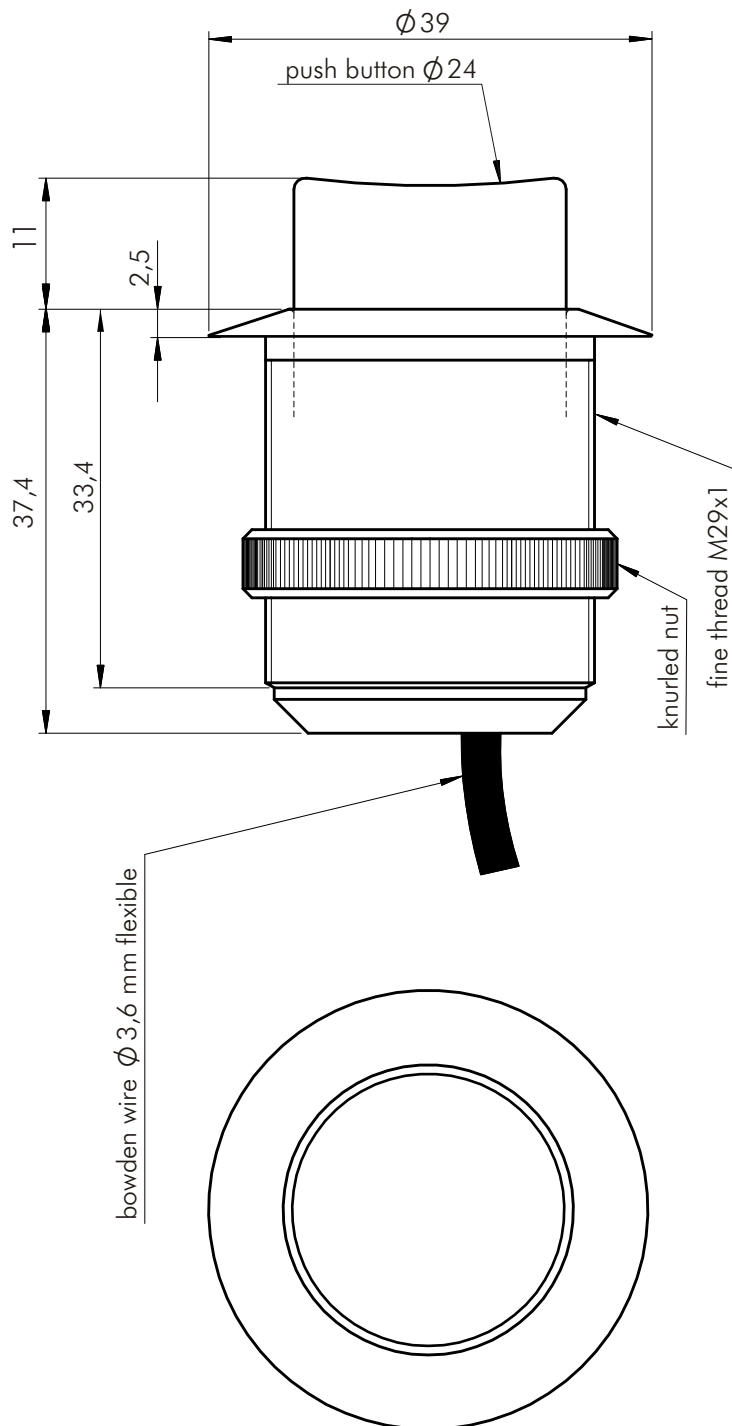
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dimensions in mm / we reserve the rights to make modifications

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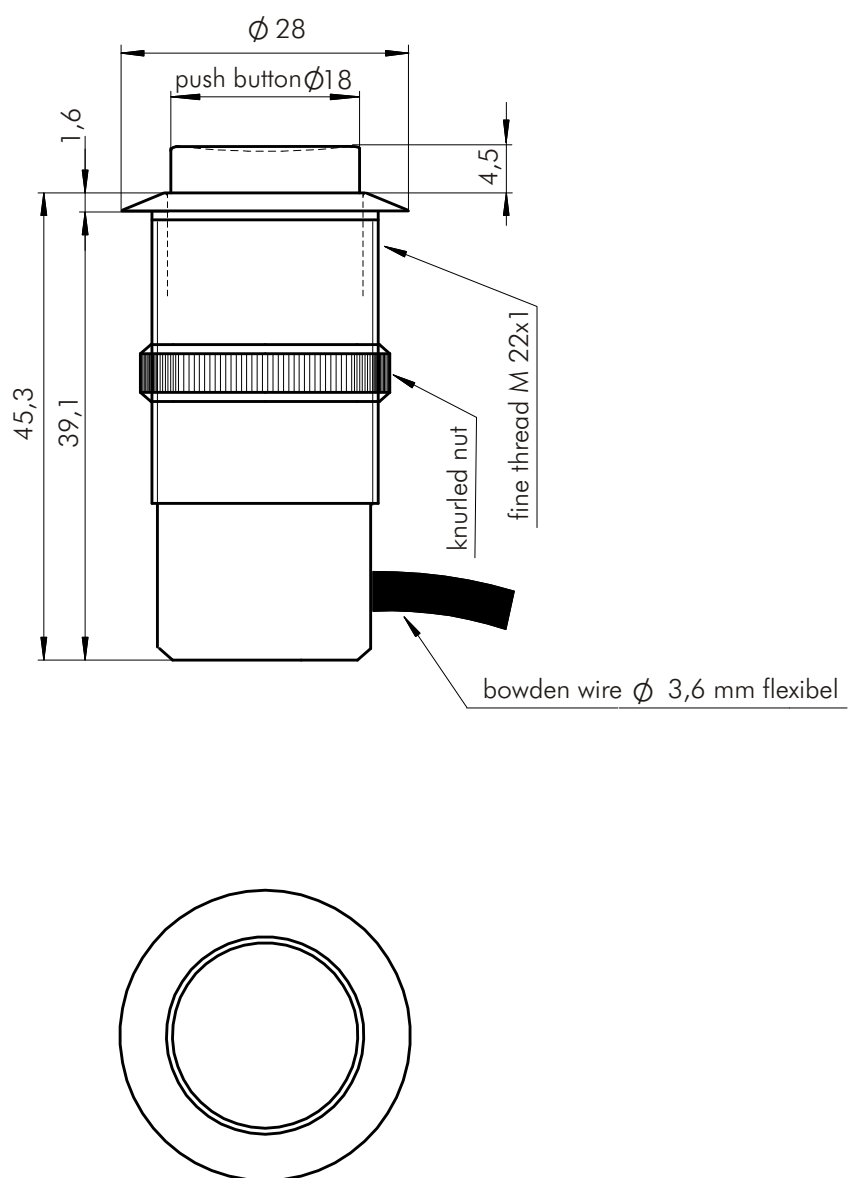
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dimensions in mm / we reserve the rights to make modifications

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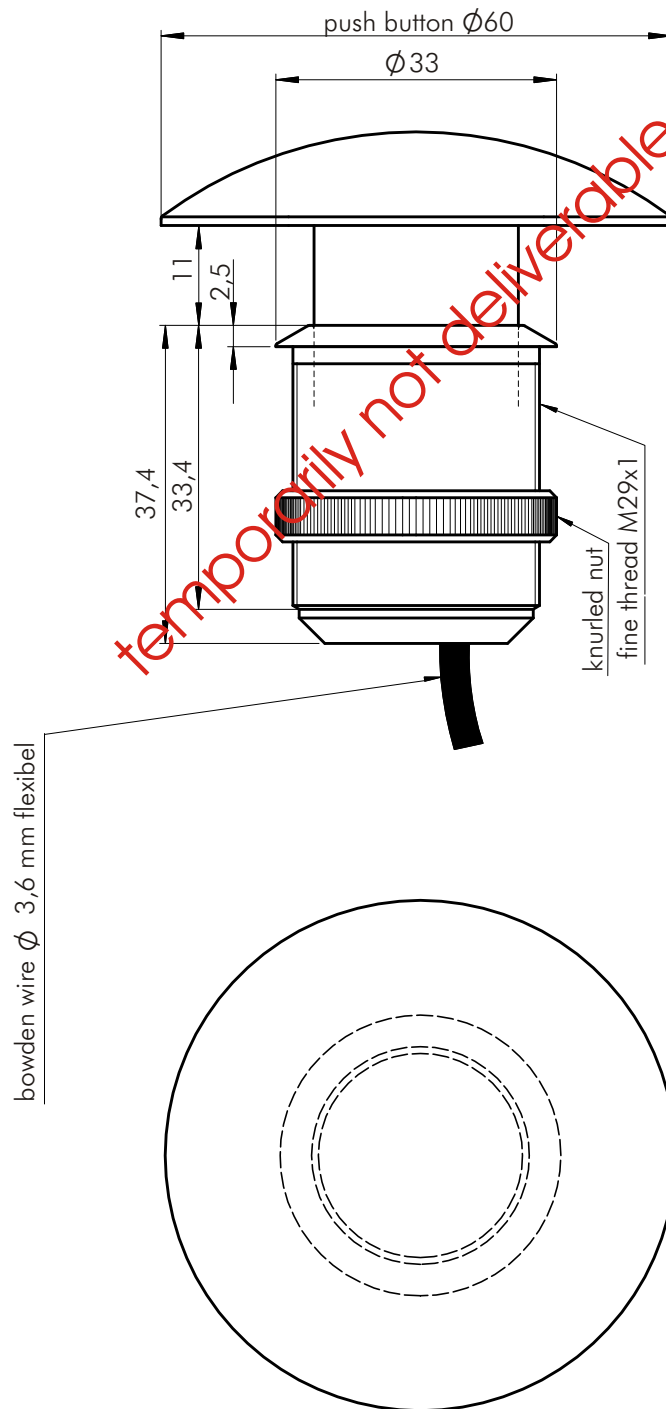
EBT-282218W **NEW**



dimensions in mm / we reserve the rights to make modifications

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EBT-332960P



dimensions in mm / we reserve the rights to make modifications

[<< Index EBT](#)

EXTERNALLY PUSH BUTTONS

installation dimensions : [see page 36](#)
 material casing/push button : aluminum/plastic
 color of casing : electrolysis aluminum; black or natural, more colors on request
 color of push button : black, red, white
 more colors on request
 way to actuate : 11 mm
 gear ratio : 1:1
 usable gas springs : 1
 max. cable force :
 on push button : 800 gramme
 length of bowden wire : 25/50/75/100/125/150 cm

order discription: ABT-202013H



installation dimensions : [see page 37](#)
 material casing/push button : aluminum/plastic
 color of casing : electrolysis aluminum; black or natural, colors on request
 color of push button : black, red, white
 more colors on request
 way to actuate : 11 mm
 gear ratio : 1:1
 usable gas springs : 1
 max. cable force :
 on push button : 800 gramme
 length of bowden wire : 25/50/75/100/125/150 cm

order discription: ABT-202030P



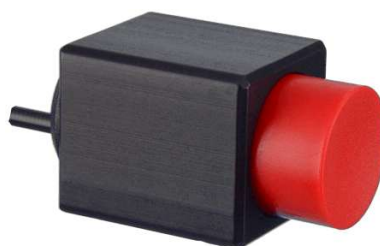
installation dimensions : [see page 38](#)
 material casing/push button : aluminum/plastic
 color of casing : electrolysis aluminum; black or natural, more colors on request
 color of push button : black, red, white
 more colors on request
 way to actuate : 11 mm
 gear ratio : 1:1
 usable gas springs : 1
 max. cable force :
 on push button : 800 gramme
 length of bowden wire : 25/50/75/100/125/150 cm

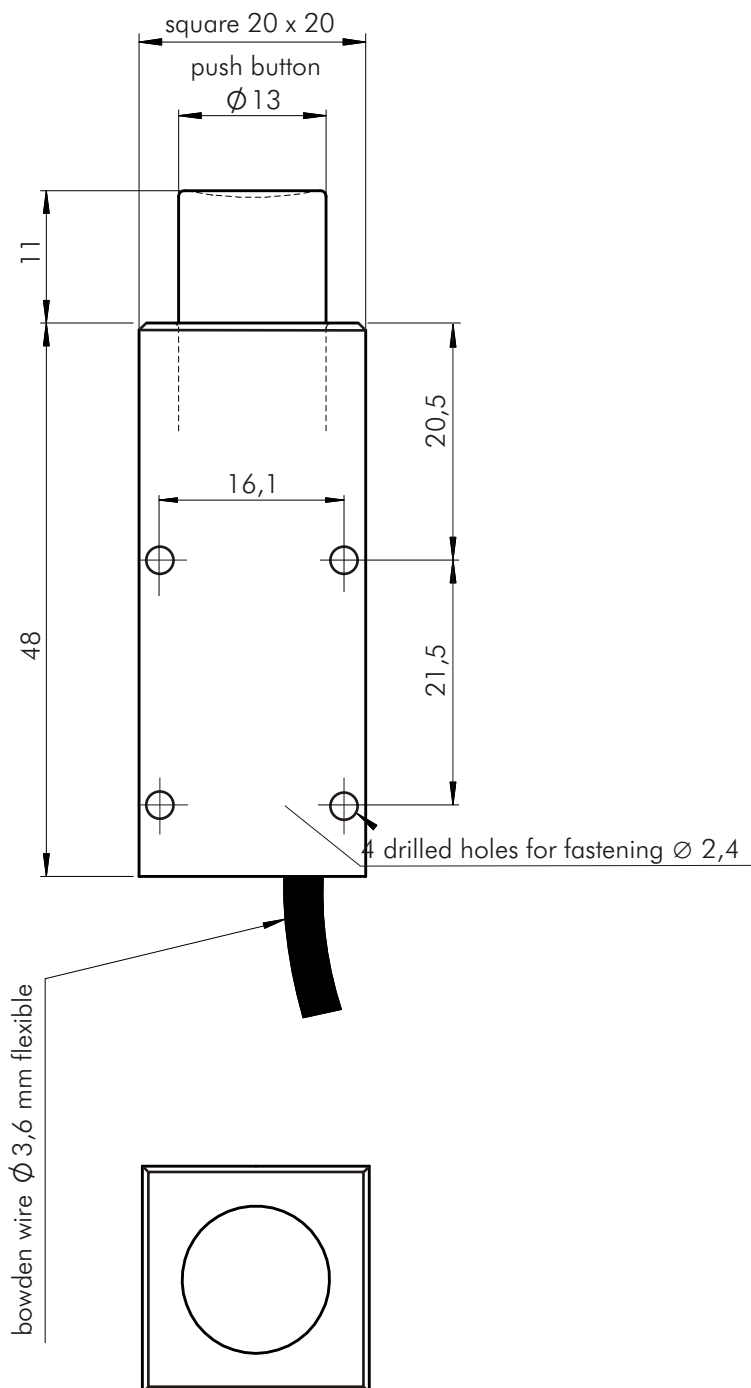
order discription: ABT-303024F



installation dimensions : [see page 39](#)
 material casing/push button : aluminum/plastic
 color of casing : electrolysis aluminum; black or natural, more colors on request
 color of push button : black, red, white
 more colors on request
 way to actuate : 11 mm
 gear ratio : 1:1
 usable gas springs : 1
 max. cable force :
 on push button : 800 gramme
 length of bowden wire : 25/50/75/100/125/150 cm

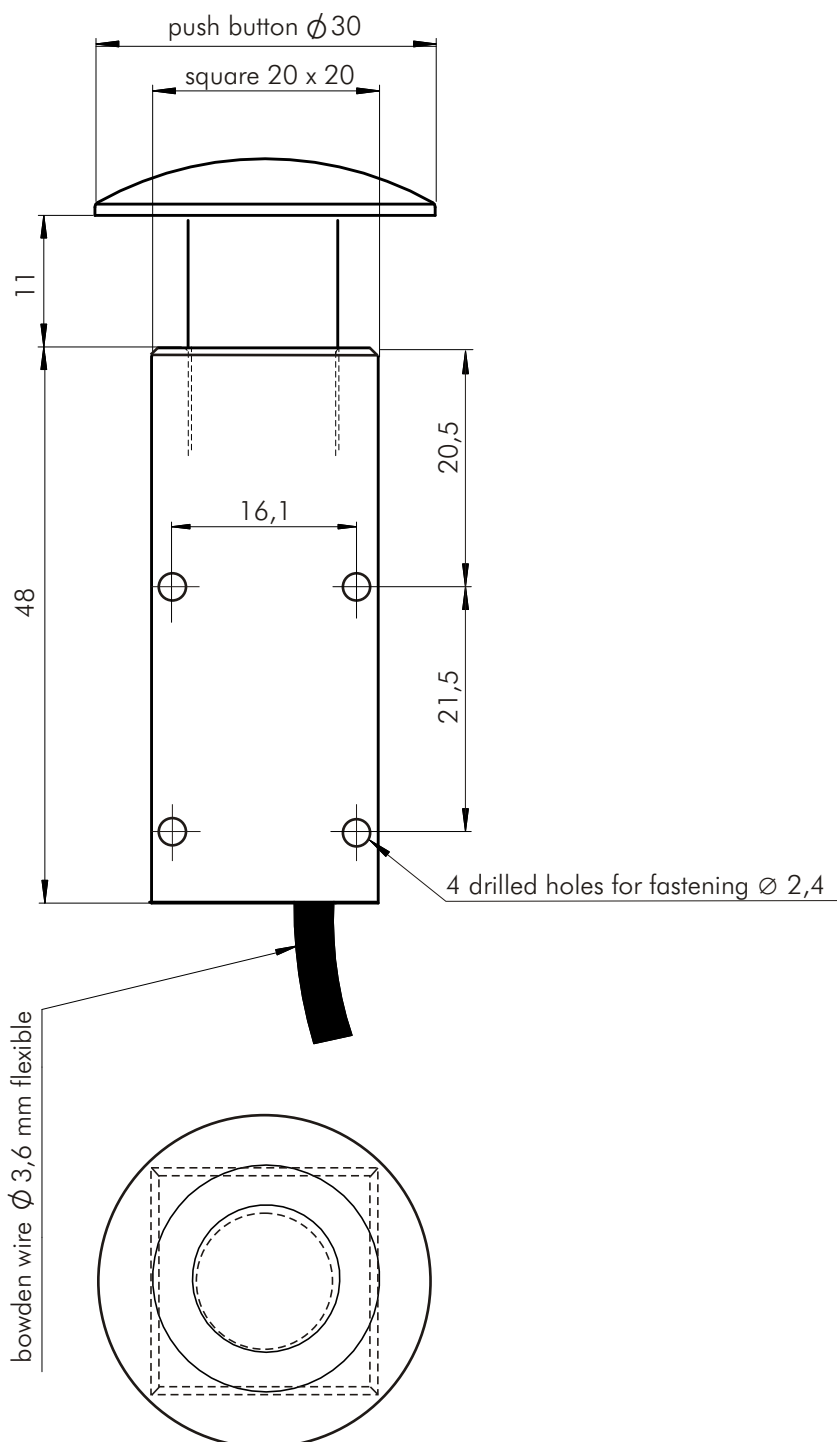
order discription: ABT-303024H





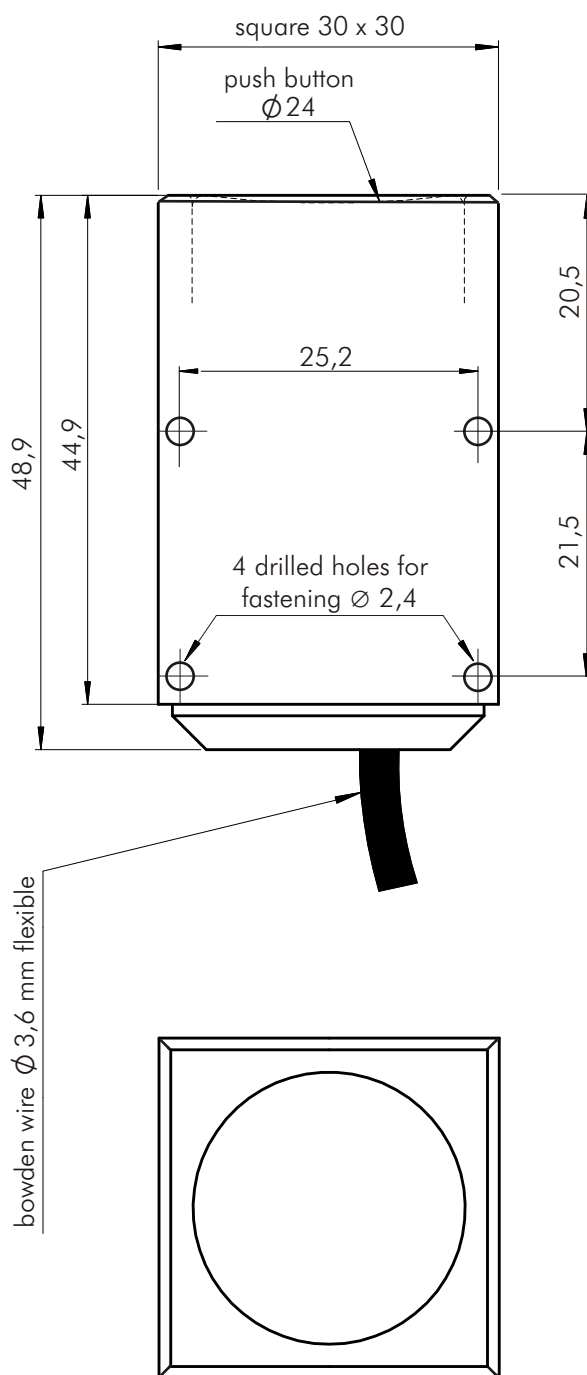
dimensions in mm / we reserve the rights to make modifications

[<< Index ABT](#)



dimensions in mm / we reserve the rights to make modifications

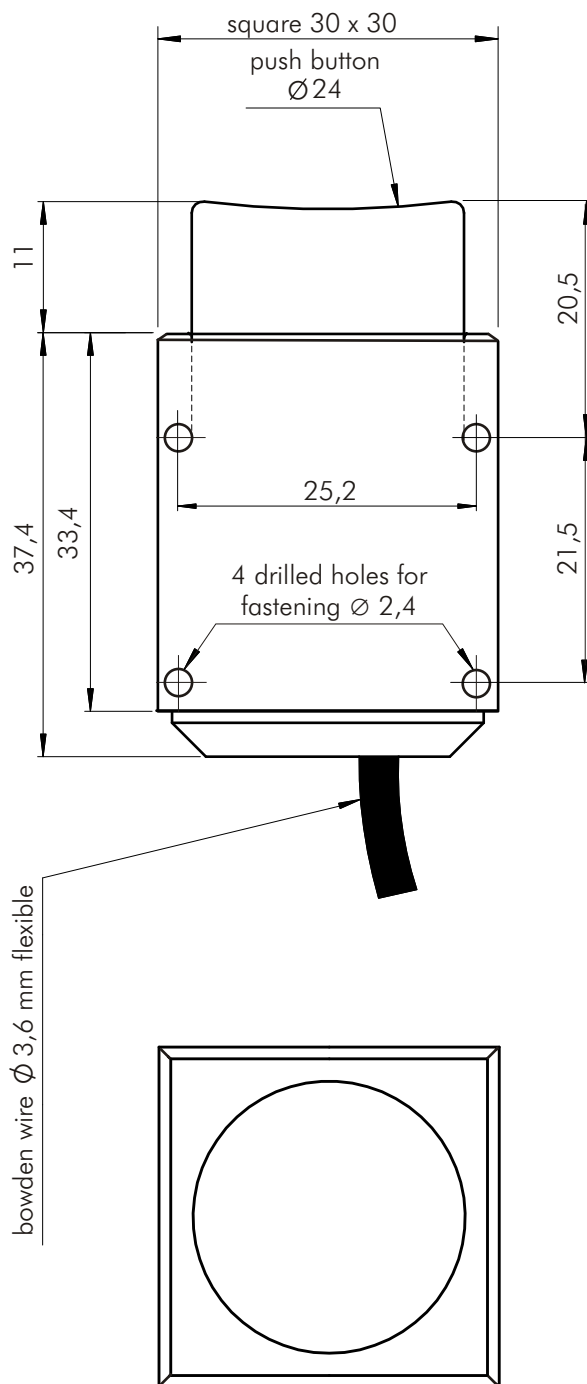
[<< Index ABT](#)



dimensions in mm / we reserve the rights to make modifications

[<< Index ABT](#)

ABT-303024H



dimensions in mm / we reserve the rights to make modifications

[<< Index ABT](#)

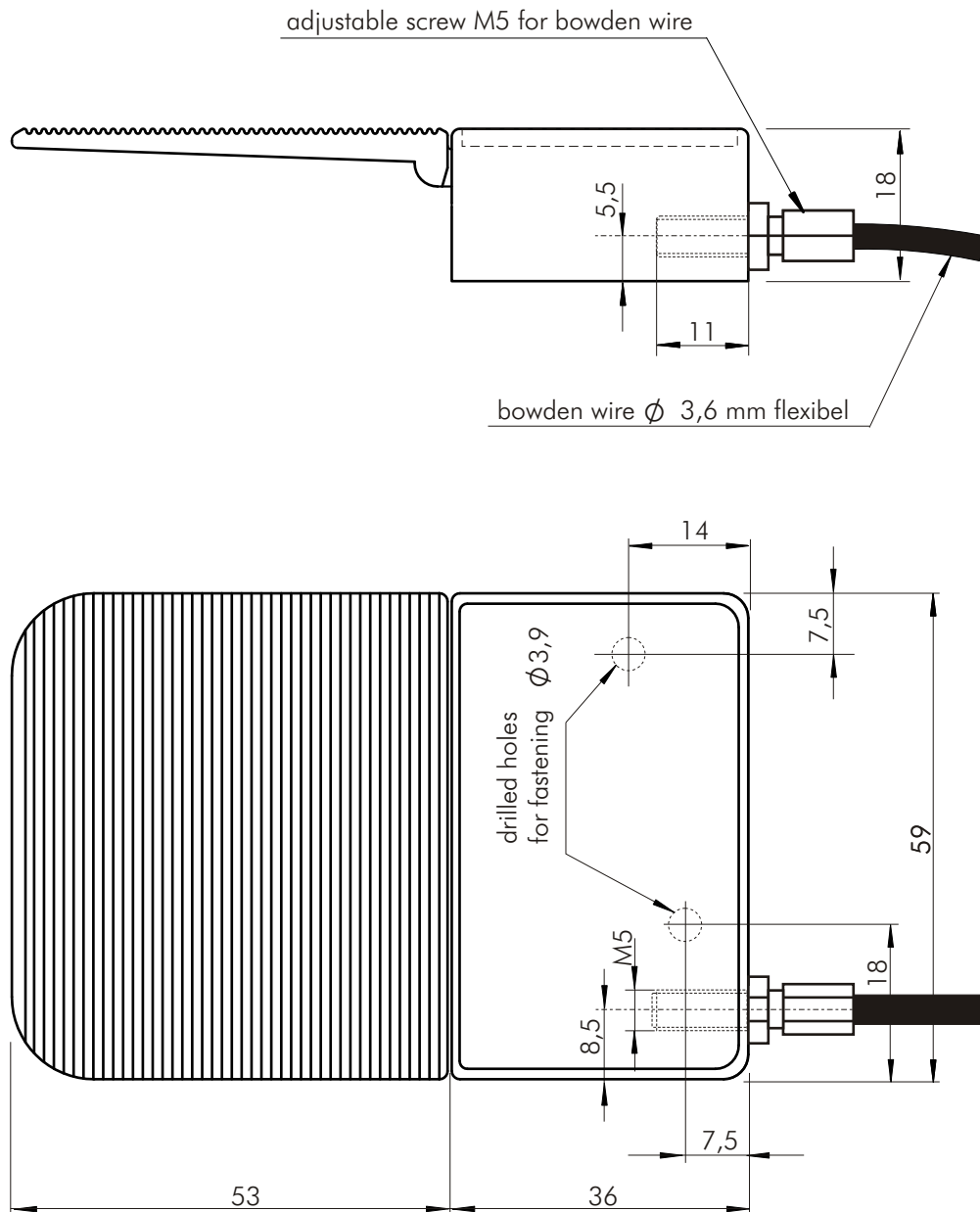
FLAT PUSH BUTTON

installation dimensions	: see page 41
material casing/push button	: plastic/ zinc-pressure die casting
color of casing	: see color table page 58 more colors on request
color of push button	: see color table page 58 more colors on request
way to actuate	: 11 mm
gear ratio	: 1:1
usable gas springs	: 1
max. cable force on push button	: 1300 gramme
length of bowden wire	: 25/50/75/100/125/150 cm

order discription: FLT-895918



FLT-895918



dimensions in mm / we reserve the rights to make modifications

[<< Index FLT](#)

REMOTE RELEASE SYSTEMS



installation dimensions : [see page 43](#)
material casing/push button : plastic/plastic
color of casing : black or white
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force :
on push button : 800 gramme
length of bowden wire : 50/75/100/125/150 cm

order discription: FA-ECO



installation dimensions : [see page 44](#)
material casing/push button : plastic/plastic
color of casing : black or white
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force :
on push button : 800 gramme
length of bowden wire : 50/75/100/125/150 cm

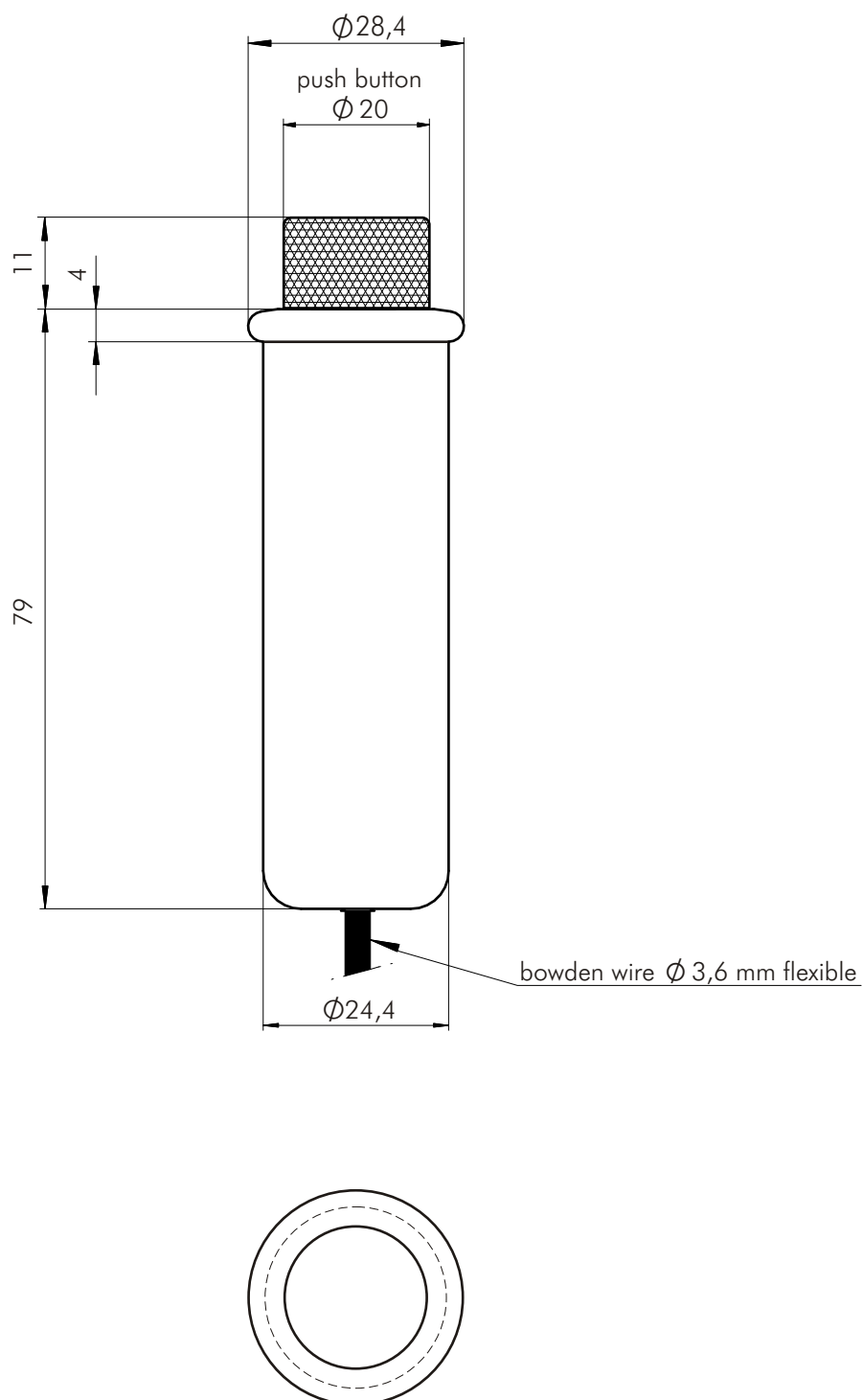
order discription: FA-MINI



installation dimensions : [see page 45](#)
material casing/push button : plastic/plastic
color of casing : black or white
more colors on request
color of push button : black, red, white
more colors on request
way to actuate : 11 mm
gear ratio : 1:1
usable gas springs : 1
max. cable force :
on push button : 800 gramme
length of bowden wire : 50/75/100/125/150 cm

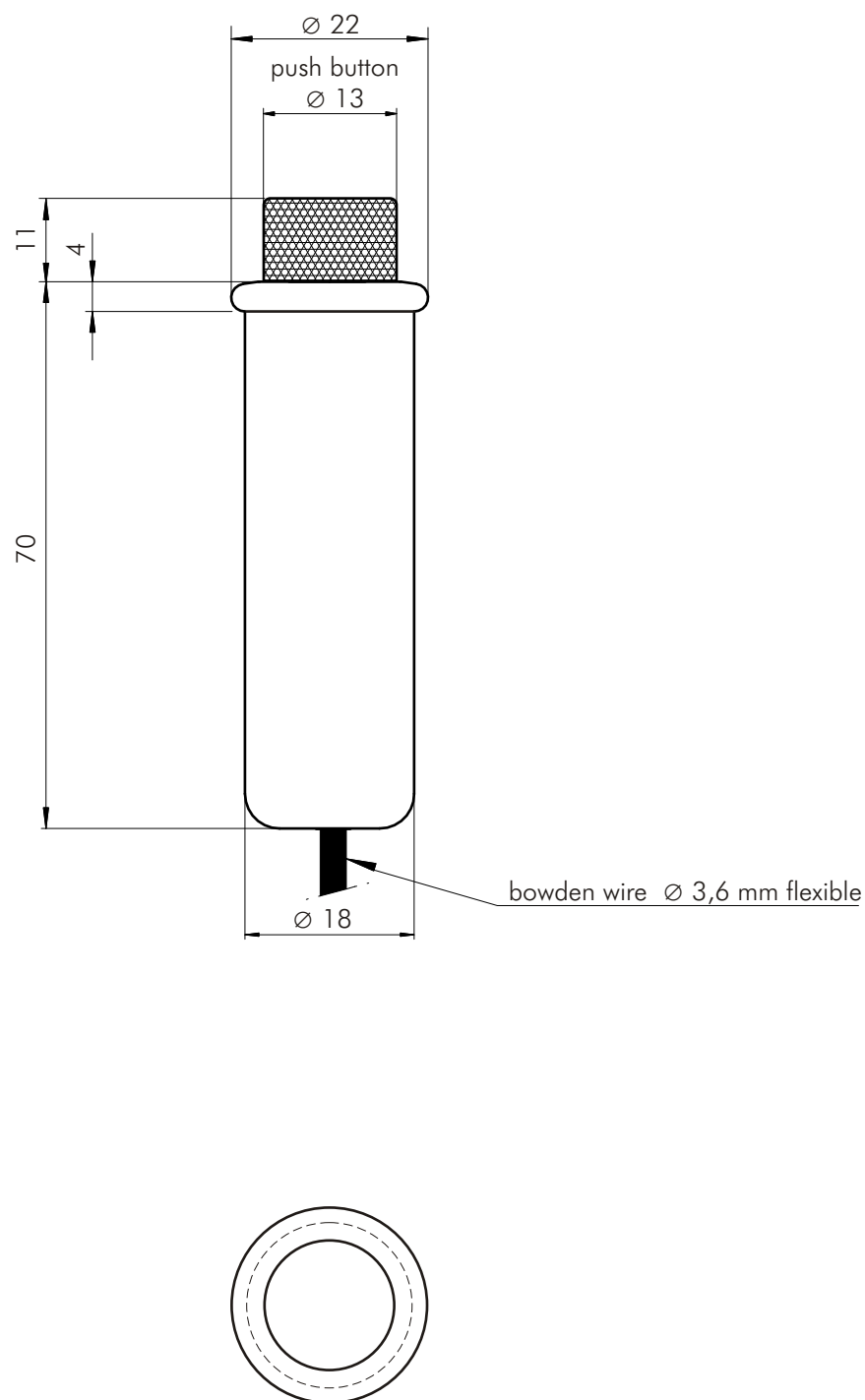
order discription: FA-ST





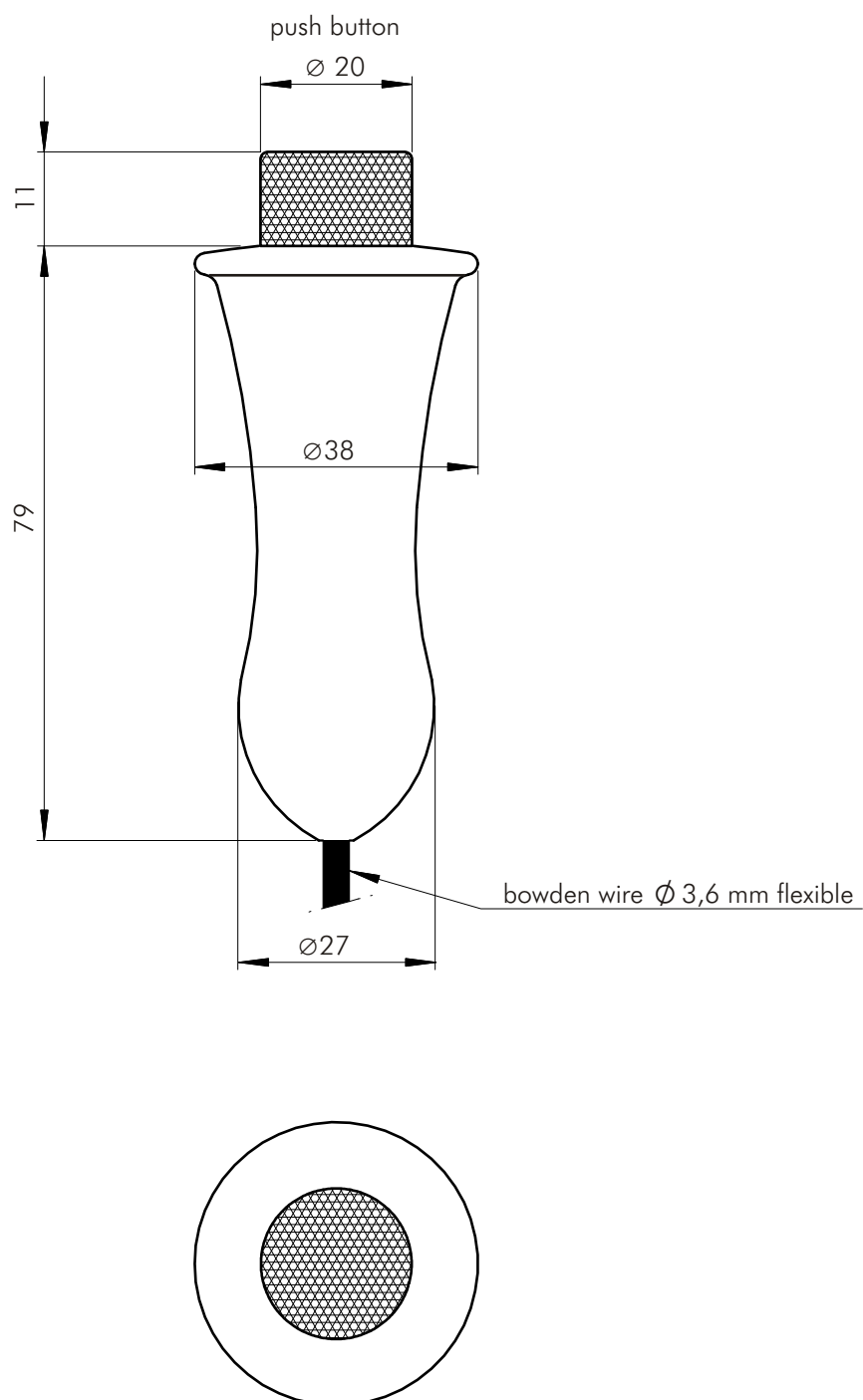
dimensions in mm / we reserve the rights to make modifications

[<< Index FA](#)



dimensions in mm / we reserve the rights to make modifications

[<< Index FA](#)



dimensions in mm / we reserve the rights to make modifications

[<< Index FA](#)

order discription: TB-50342400-1GA
-2GA
-3GA



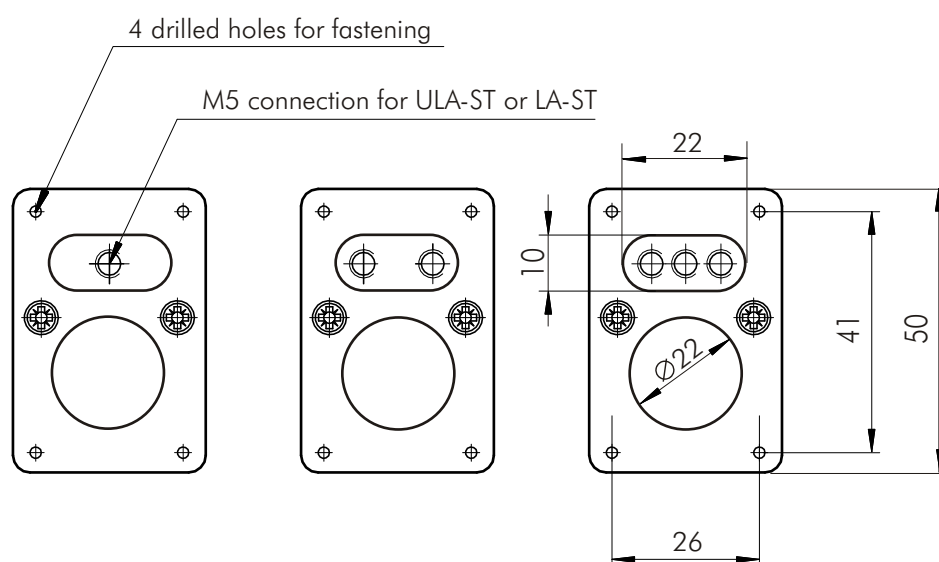
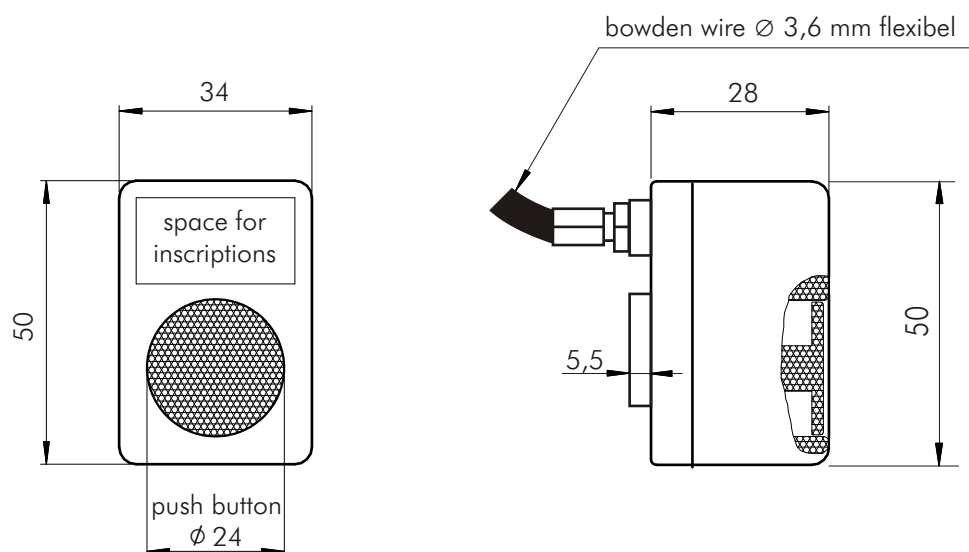
order discription: TB-50346444-1GA
-2GA
-3GA



order discription: TB-50346464-1GA
-2GA
-3GA



TB-50342400



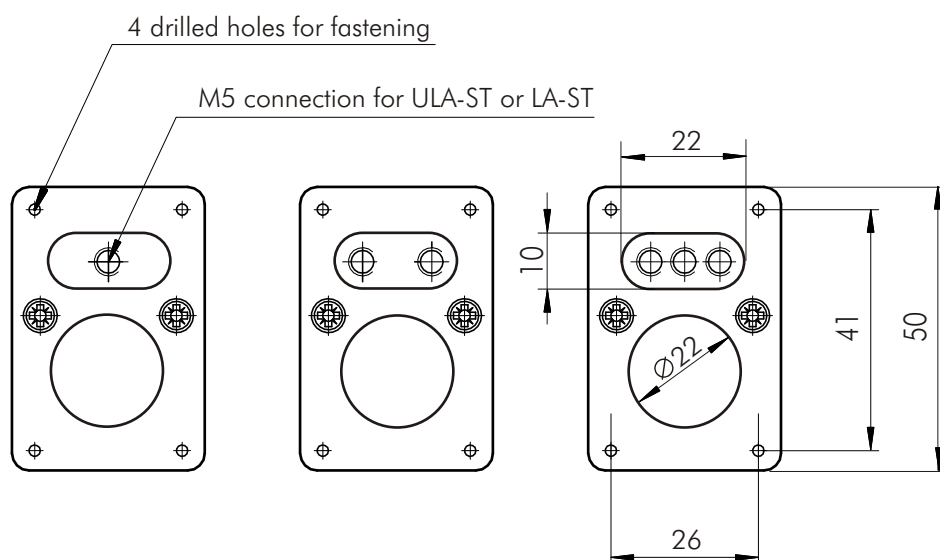
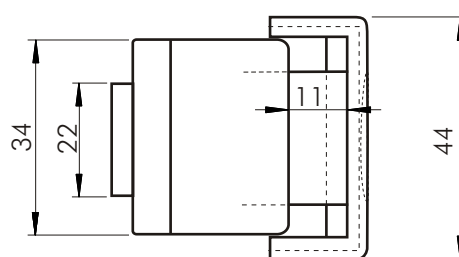
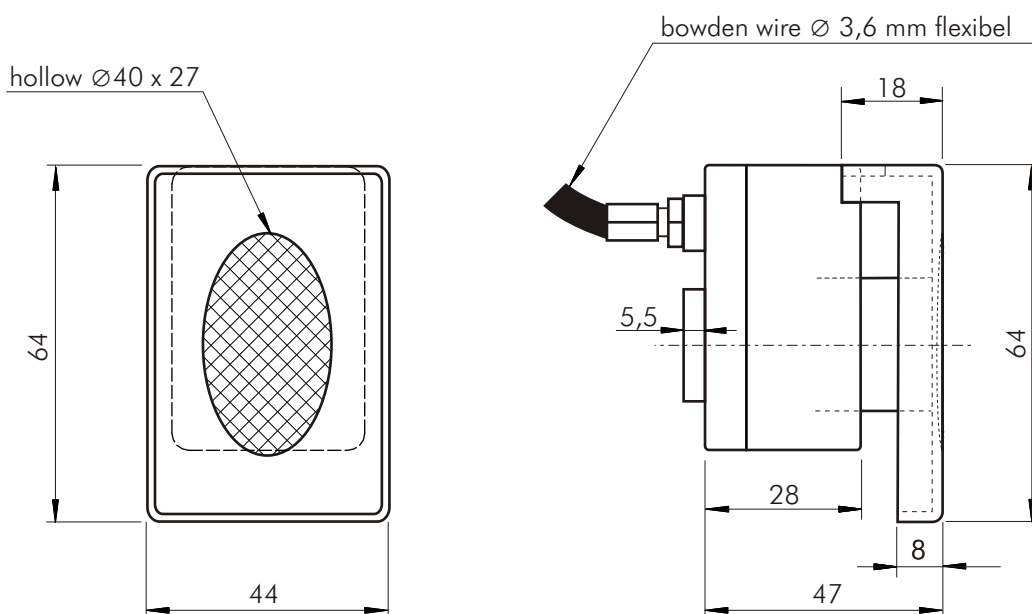
TB-50342400-1GA

TB-50342400-2GA

TB-50342400-3GA

dimensions in mm / we reserve the rights to make modifications

[<< Index TB](#)



TB-50346444-1GA

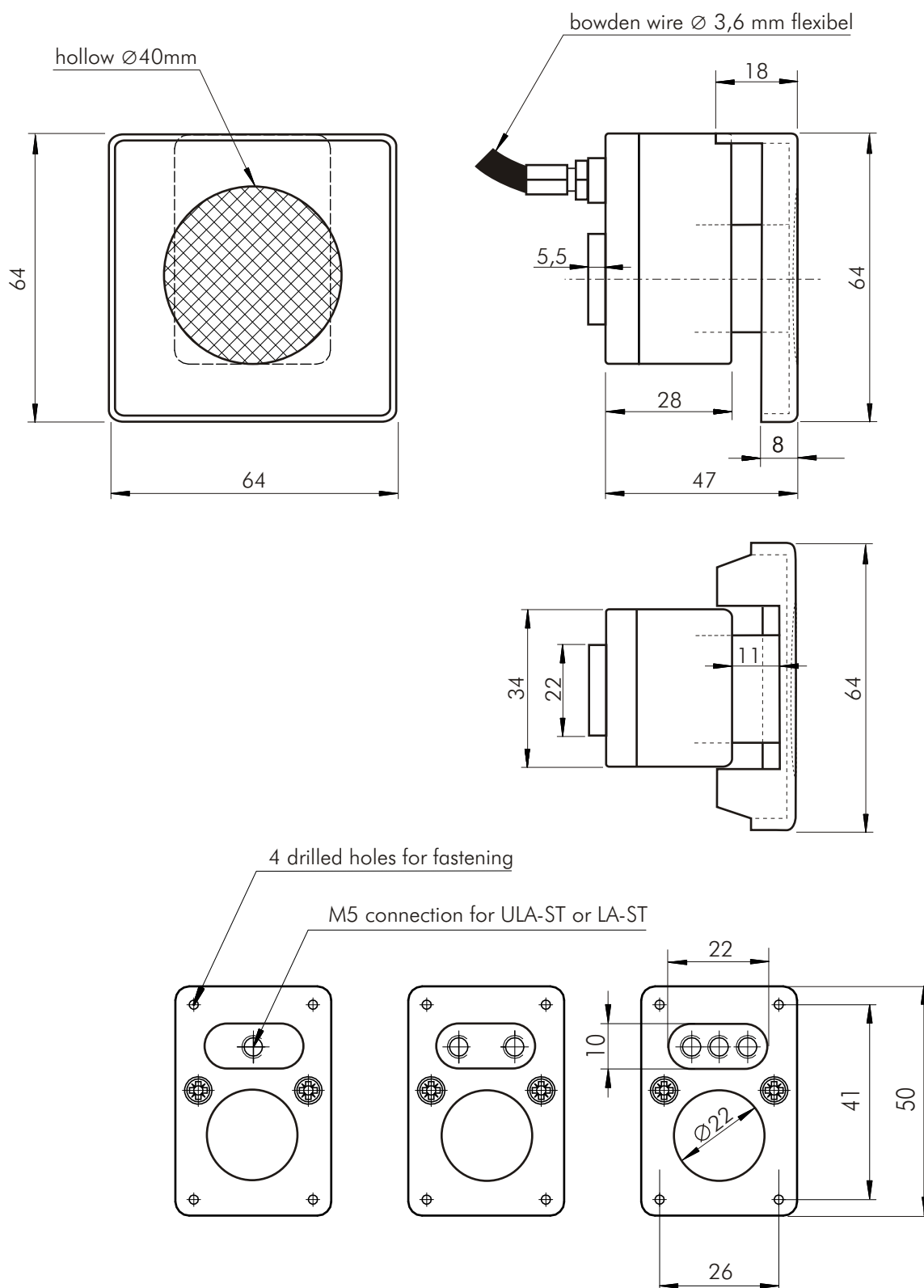
TB-50346444-2GA

TB-50346444-3GA

dimensions in mm / we reserve the rights to make modifications

[<< Index TB](#)

TB-50346464



TB-50346464-1GA

TB-50346464-2GA

TB-50346464-3GA

OPERATING LEVERS

dimensions	: see page 51
material	: articulated element zinc lever plastic
color	: articulated element black lever black
maximum wire-ø	: 1,8 mm
max. cable force on lever	: 50 N
gear ratio	: 1:2,88

order discription: BET-HEB1-KURZ



dimensions	: see page 52
material	: articulated element zinc lever plastic
color	: articulated element black lever black
maximum wire-ø	: 2 mm
max. cable force on lever	: 100 N
gear ratio	: 1:4

order discription: BET-HEB-LG-SCH

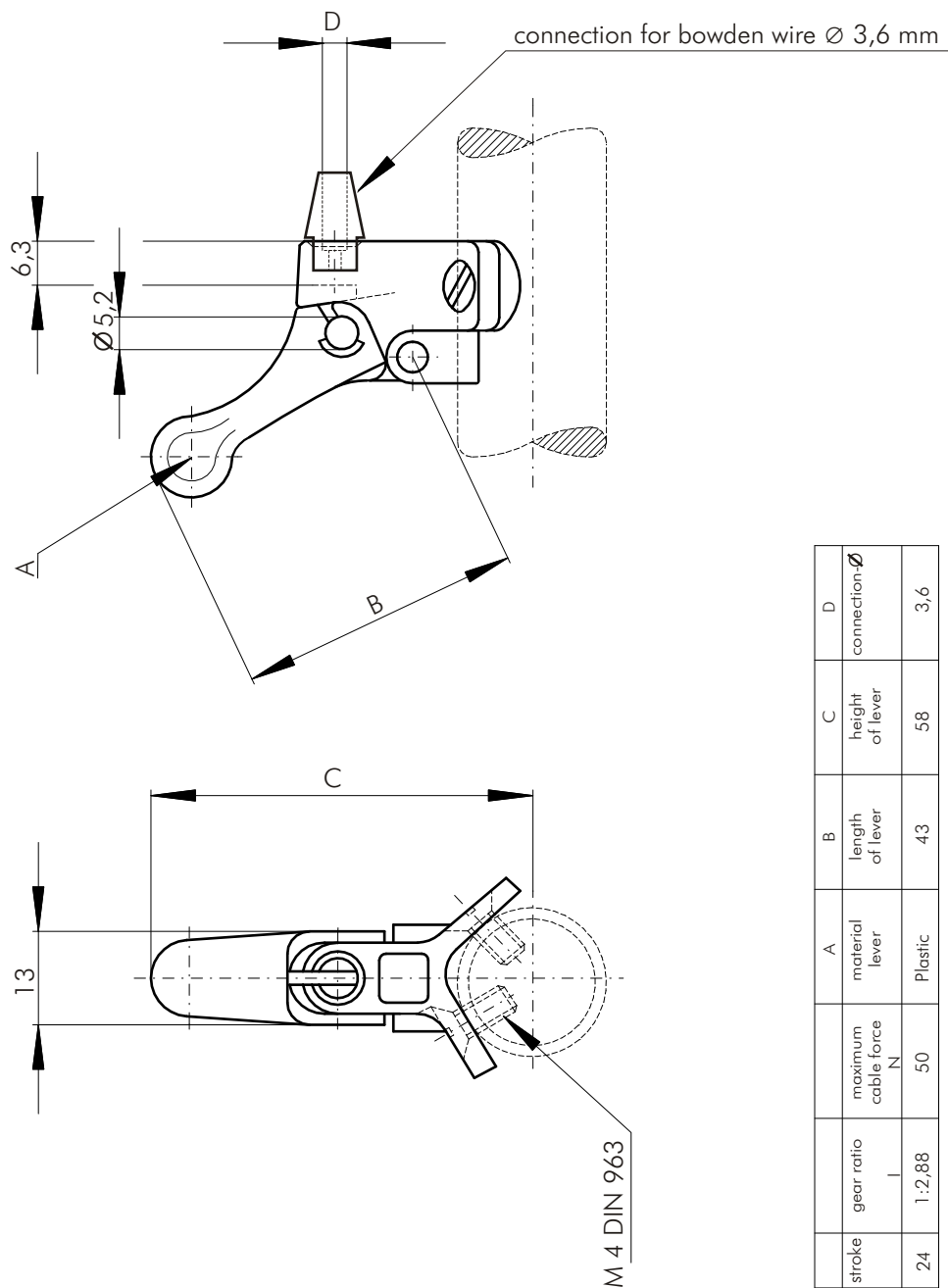


dimensions	: see page 53
material	: casing plastic/ lever steel with rubber cover
color	: black
maximum wire-ø	: 1,5 mm
max. cable force on lever	: 50 N
gear ratio	: 1:6

order discription: BET-HEB-SO



BET-HEB 1-KURZ

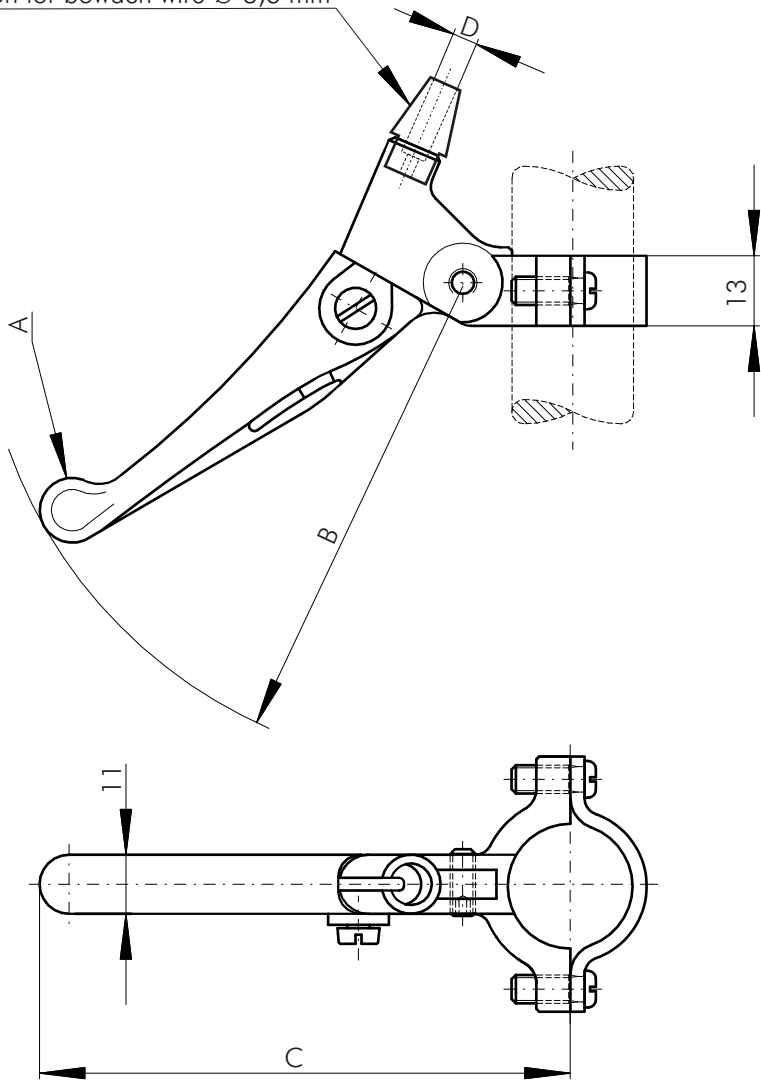


stroke	gear ratio	maximum cable force N	A material lever	B length of lever	C height of lever	D connection Ø
24	1:2,88	50	Plastic	43	58	3,6

dimensions in mm / we reserve the rights to make modifications

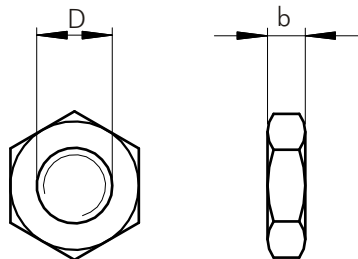
<< Index BET

connection for bowden wire Ø 3,6 mm



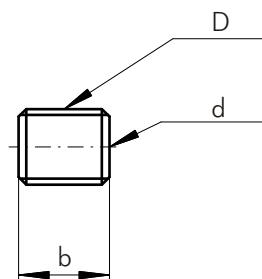
	stroke	gear ratio	maximum cable force N	A material lever	B length of lever	C height of lever	D connection-Ø
	17	1:4	100	plastic	86	94	3,6

[<< Index BET](#)



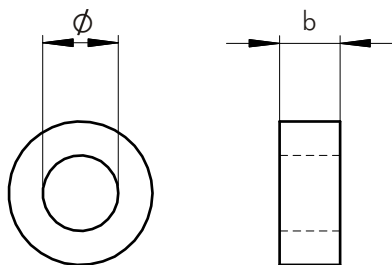
Screw nuts

Thread D	b	Order-No.
M8 x 1	5	MU-08
M10 x 1	6	MU-10



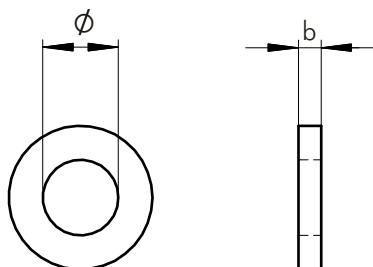
Reduce socket

Thread D/d	b	Order-No.
M10 x 1 / M8 x 1	12	RED-M10M8



Rubber bumper

Ø	b	Order-No.
8	8	GUPU-88
10	4	GUPU-104
	8	GUPU-108

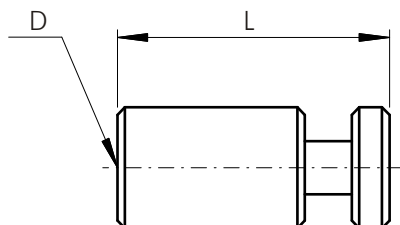


Washer

Ø	b	Order-No.
8	3	SCHEI-83
10	3	SCHEI-103

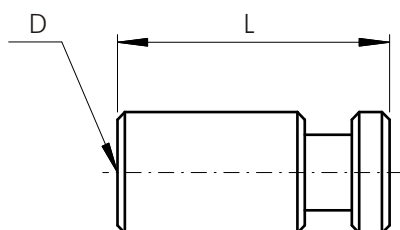
dimensions in mm / we reserve the rights to make modifications

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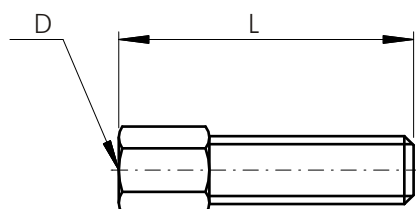
Plastic coupling for ULA*

D	L	Order-No.
∅ 3,6	20	KUHU-ULA-36
M5	20	KUHU-ULA-M5



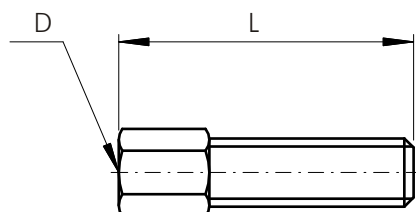
Plastic coupling for LA**

D	L	Order-No.
∅ 4,8	20	KUHU-LA-48
M6	20	KUHU-LA-M6



Adjustable screw for ULA*

D	L	Order-No.
∅ 3,6	24	STELL-ULA-36



Adjustable screw for LA**

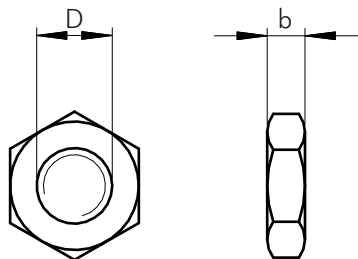
D	L	Order-No.
∅ 4,8	24	STELL-LA-48

* Ultra-Light Release Head

** Light Release Head

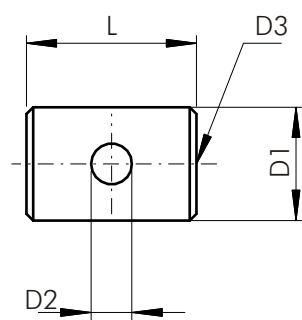
dimensions in mm / we reserve the rights to make modifications

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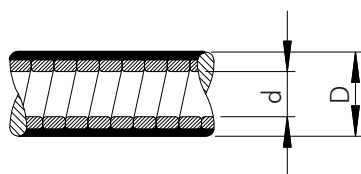
Screw nut for adjustable screw

Thread D	b	Order-No.
M5	2,7	MU-05
M6	3,2	MU-05



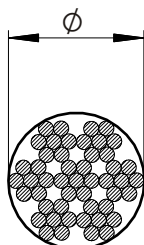
Screw nipple

D1	D2	D3	L	Order-No.
ø 5	ø 1,8	M3,5	7,5	S-NIP-5-75



Flat section casing

D	d	Order-No.
ø 3,6	ø 1,5	BO-HUE-3615
ø 3,8	ø 2,0	BO-HUE-3820
ø 4,7	ø 2,7	BO-HUE-4727



Wires

ø	Material	Order-No.
0,9	Nirosta	SEIL-09
1,0	Steel galvanized	SEIL-10

dimensions in mm / we reserve the rights to make modifications

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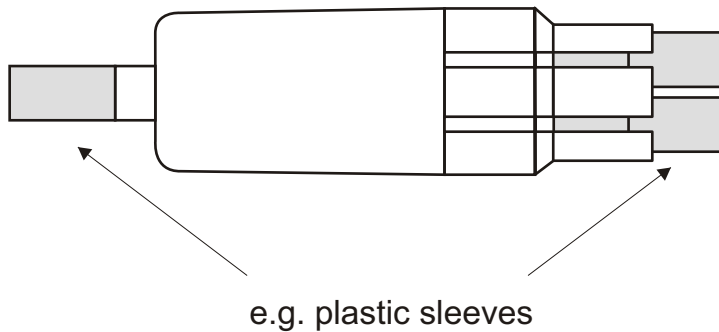
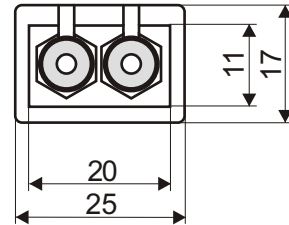
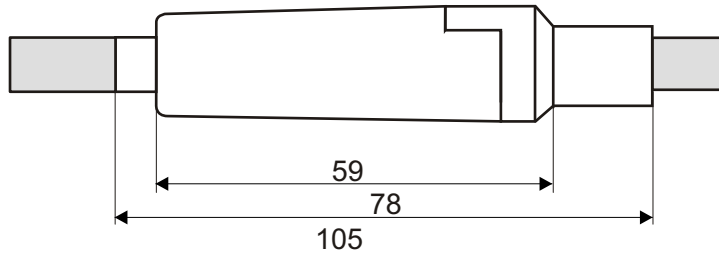
ACCESSORIES

DOUBLE CONTROL

With the Double-Control you are able to control 2 Gas Springs at the same time with just one keyelement.

Available in 2 varieties

- with plastic sleeves
- or adjustable metal screws



Weight	25 g
Stroke	18 mm
Colour	black
Material	Plastic

dimensions in mm / we reserve the rights to make modifications

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COLOR TABLES



Colors of Casing by RAL*

Color	Order-Code	Flat Push-Button	Externally Push-Button	Built-in Push-Button	Remote Release-System	Keyblock
black	9005	X*	X*	X*	X*	X*
natural	9006		X*	X*		
white	9003	X*			X*	X*
red	9003	X*			X*	X*
brown	8017	X*				X*
grey	7004	X*				X*
beige	9010	X*				X*

More colours only on request
*Standardcolours

Colors of Push-Button by RAL*

Color	Order-Code	Flat Push-Button	Externally Push-Button	Built-in Push-Button	Remote Release-System	Keyblock
black	9005	X*	X*	X*	X*	X*
white	9003	X	X*	X*	X*	X*
red	3001	X*	X*	X*	X*	X*
silver	MCSV	X*				
grey	7004	X				X*
brown	8017	X				X*
yellow	1016	X				X
blew	5005	X				X
green	6001	X				X
beige	9010	X				X
blue	5022	X				

More colours only on request
*Standardcolours

ORDER / PRICE INQUIRY

Fax-Number +49 (0)6205-3 84 17



Company:

Mr./Mrs.:

Street:

Zip-Code/City:

Country:

Phone-Nr.:.....

Fax-Nr.:

Email:.....

Internet::

order	color of	color of push	length of	annual requirement	retrieval lot size
e.g. EBT-392924F	9006	9005	0500	1500	250

Date:

Signature: