CYLINDERS
SERIES 42

Single and double-acting, magnetic, cushioned
Ø 32, 40, 50, 63 mm





- Perfect alignment
- Different mounting options

Series 42 cylinders have been designed without tie rods to assure an extremely clean design.
Stainless steel has been used for the tube and the rod, while the end cover is made in anodized Aluminium. These cylinders are normally equipped with adjustable end-stroke cushioning and with a mechanical cushioning in order to make the impact of the piston less noisy as it reaches the end of the stroke.

General Data

Type of construction	Compact - flanged
Operation	Single-acting or double-acting
Materials	End-blocks = AL Tube = stainless steel AISI 304 Rod = stainless steel AISI 420B Other parts (see coding)
Type of mounting	Front flange, rear flange, feet, front and rear trunnion, threaded pins
Strokes min - max	10 - 1000 mm
Operating temperature	0 ÷ 80°C (with dry air -20°C)
Operating pressure	1 ÷ 10 bar (double-acting); 2 ÷ 10 bar (single-acting)
Speed	10 ÷ 1000 mm/sec (NO LOAD)
Fluid	Clean air, without lubrication. If lubricated air is used, it is recommended to use oil ISOVG32. Once applied the lubrication should never be interrupted.

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CYLINDERS
SERIES 42 - STROKES

standard strokes for double-acting cylinders Series 42

✖ = Double acting
■ = Single acting

Ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	✖ ■	✖ ■	✖ ■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖
40	✖ ■	✖ ■	✖ ■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖
50	✖ ■	✖ ■	✖ ■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖
63	✖ ■	✖ ■	✖ ■	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖	✖

Coding Example

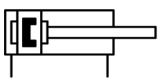
42	M	2	N	050	A	0200

42	SERIES	
M	VERSION M = standard magnetic	
2	OPERATION 1 = single-acting, cushions (front spring) 2 = double-acting, front and rear cushions 3 = double-acting, no cushion 4 = double-acting, rear cushions 5 = double-acting, front cushion 6 = double-acting, through-rod, front and rear cushions 7 = single-acting, through-rod, cushions	**PNEUMATIC SYMBOLS** CS12 CD09 CD08 CD10 CD11 CD13 CS13
N	MATERIALS N = stainless steel AISI 420B rod - stainless steel AISI 304 tube - NBR seals	
050	BORE 032 = 32 mm 040 = 40 mm 050 = 50 mm 063 = 63 mm	
A	TYPE OF DESIGN A = standard with nose nut Mod. V and piston rod lock nut Mod. U	
0200	STROKE (see the table)	
	ROD LENGTH = Standard (_ _ _) = Rod extended with _ _ _ mm	
	CERTIFICATIONS = Standard EX = ATEX	

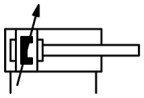
Pneumatic symbols

The pneumatic symbols which have been indicated in the CODING EXAMPLE are shown below.

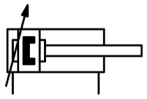
CD08



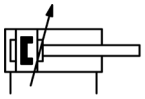
CD09



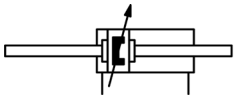
CD10



CD11



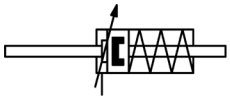
CD13



CS12



CS13



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Accessories for cylinders Series 42

Nose nut Mod. V



Coupling piece Mod. GKF



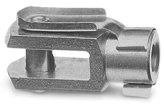
Self aligning rod Mod. GK



Piston rod socket joint Mod. GY



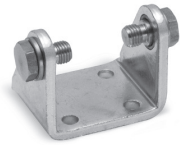
Rod fork end Mod. G



Foot mount Mod. P



Trunnion Mod. I



Swivel ball joint Mod. GA



Brack threaded pins Mod. T



Piston rod lock nut Mod. U

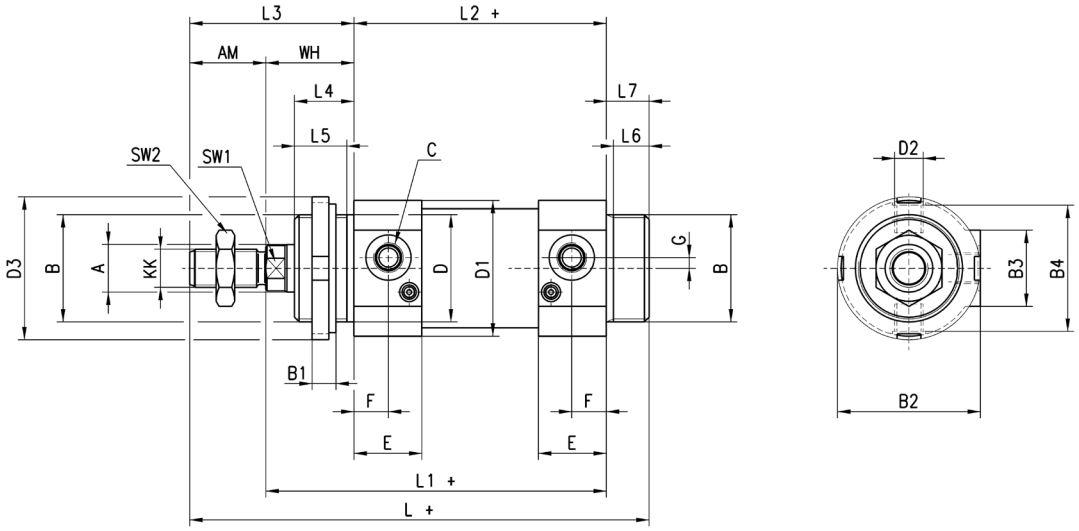


All accessories are supplied separately, except for piston rod lock Mod. U and nose nut Mod. V.

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Cylinders Series 42





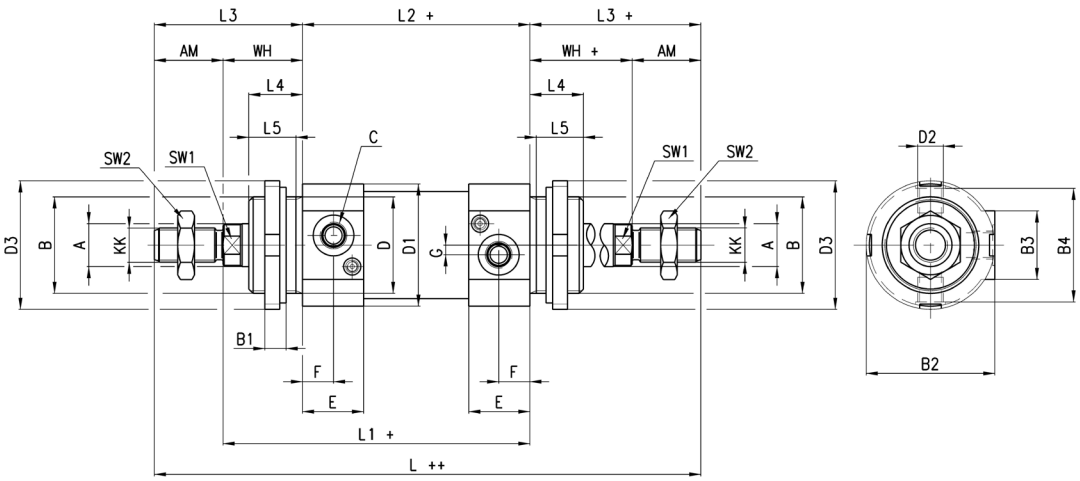
+ = add the stroke

Ø	A	KK	B	B1	B2	B3	B4	C	D^{d11}	D1	D2	D3	E	F	G	SW1	SW2	AM	WH	L +	L1 +	L2 +	L3	L4	L5	L6	L7	*
32	12	M10x1,25	M30x1,5	8	41,5	28	36	G1\8	30	38	M8x1	42	23,5	10,5	5	10	17	22	26	156	120	94	48	18	15	11	14	17 / 12
40	16	M12x1,25	M38x1,5	10	50	30	43	G1\4	38	46	M10x1	50	29	15	5	13	19	24	30	175	135	105	54	22	19	13	16	20 / 17
50	20	M16x1,5	M45x1,5	10	58,5	32	54	G1\4	40	57	M12x1,5	60	28,5	14,5	4,5	17	24	32	37	193	143	106	69	25	22	15	18	15 / 14
63	20	M16x1,5	M45x1,5	10	70,5	46,5	66	G3\8	45	70	M14x1,5	60	35	15,5	7	17	24	32	37	208	158	121	69	25	22	15	18	17 / 16

* = front/rear cushion stroke
Sizes L, L1 and L2 in single-acting cylinders are increased by 25 mm

Cylinders Series 42 - through-rod





+ = add the stroke once
++ = add the stroke twice

Ø	A	KK	B	B1	B2	B3	B4	C	D	D1	D2	D3	E	F	G	SW1	AM	SW2	WH +	L ++	L1 +	L2 +	L3	L4	L5	*
32	12	M10x1,25	M30x1,5	8	41,5	28	36	G1\8	30	38	M8x1	42	23,5	10,5	5	10	22	17	26	190	120	94	48	18	15	17 / 12
40	16	M12x1,25	M38x1,5	10	50	30	43	G1\4	38	46	M10x1	50	29	15	5	13	24	19	30	213	135	105	54	22	19	20 / 17
50	20	M16x1,5	M45x1,5	10	58,5	32	54	G1\4	45	57	M12x1,5	60	28,5	14,5	4,5	17	32	24	37	244	143	106	69	25	22	15 / 14
63	20	M16x1,5	M45x1,5	10	70,5	46,5	66	G3\8	45	70	M14x1,5	60	35	15,5	7	17	32	24	37	259	158	121	69	25	22	17 / 16

* = front/rear cushion stroke
Sizes L, L1 and L2 in single-acting cylinders are increased by 25 mm

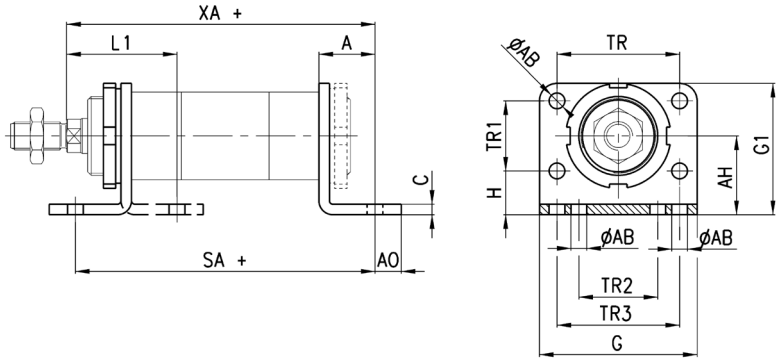
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Foot mount Mod. P



Material:
zinc-plated steel

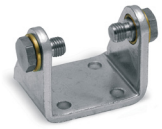
Supplied with:
1x nut
2x single feet



+ = add the stroke

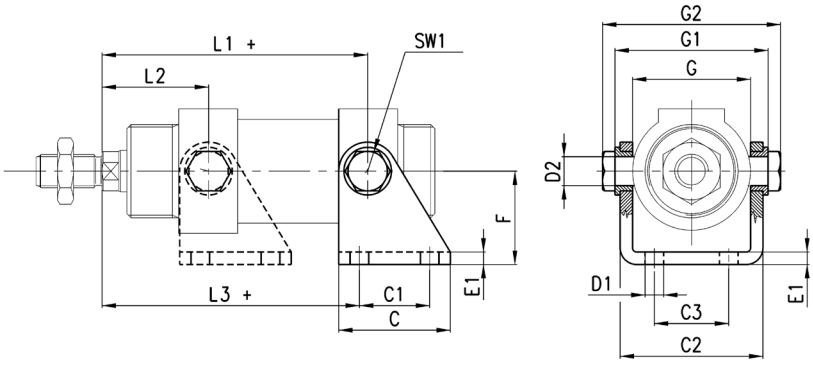
Mod.	Ø	L1	SA +	XA +	A	AB	AO	AH	C	G	G1	TR	TR1	TR2	TR3	H
P-42-32	32	46	142	144	24	7	11	32	4	66	53	52	28	32	52	18
P-42-40	40	53	161	163	28	9	15	36	5	80	61	60	30	36	60	21
P-42-50	50	63	170	175	32	9	15	45	6	90	75	70	40	45	70	25
P-42-63	63	63	185	190	32	9	10	50	6	96	85	76	50	50	76	25

Trunnion Mod. I



Material:
zinc-plated steel

Supplied with:
1x nut
2x single feet



+ = add the stroke

Mod.	Ø	L1 +	L2	L3 +	C	C1	C2	C3	D1	D2	E1	F	SW1	G	G1	G2
I-42-32	32	109,5	36,5	105,5	40	24	46,1	20	7	10	4	35	13	38,1	50,1	58,1
I-42-40	40	120	45	117	50	30	56,1	28	9	12	5	40	17	46,1	60,1	70,1
I-42-50	50	128,5	51,5	124,5	54	34	69,1	36	9	14	6	45	19	57,1	74,1	86,1
I-42-63	63	143	52	142	65	35	82,1	42	9	16	6	50	19	70,1	88,1	100,1

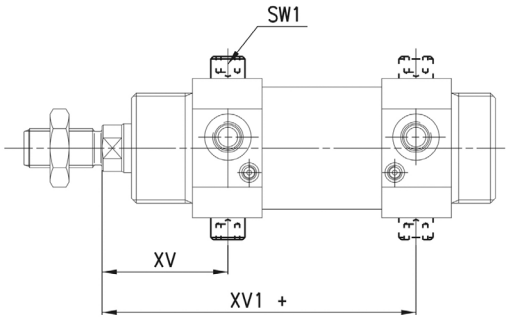
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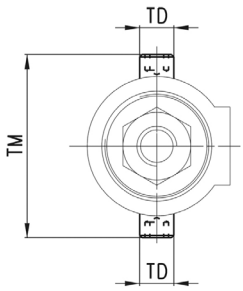
Threaded trunnion pin Mod. T



Material:
stainless steel

Supplied with:
2x pins





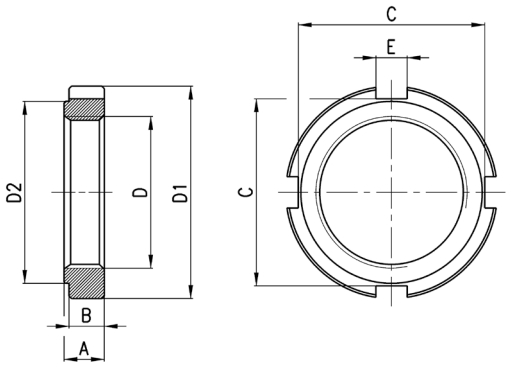
+ = add the stroke

Mod.	Ø	XV	XV1 +	TD	TM	SW1
T-42-32	32	36,5	109,5	10	51	5
T-42-40	40	45	120	12	61	6
T-42-50	50	51,5	128,5	14	75	6
T-42-63	63	52	143	16	90	8

Nose nut Mod. V



Material:
zinc-plated steel



Mod.	Ø	D	D1	D2	A	B	C	E
V-42-32	32	M30x1,5	42	36	8	7	37	6,2
V-42-40	40	M38x1,5	50	48	10	9	44	7,2
V-42-50-63	50-63	M45x1,5	60	56	10	9	53	7,2

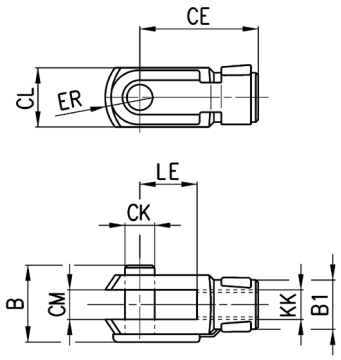
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Rod fork end Mod. G



ISO 8140

Material:
zinc-plated steel



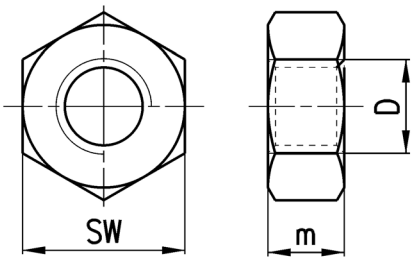
Mod.	Ø	øCK	LE	CM	CL	ER	CE	KK	B	øB1
G-25-32	32	10	20	10	20	12	40	M10x1,25	26	18
G-40	40	12	24	12	24	14	48	M12x1,25	32	20
G-50-63	50-63	16	32	16	32	19	64	M16x1,5	40	26

Piston rod nut Mod. U



UNI EN ISO 4035

Material:
zinc-plated steel



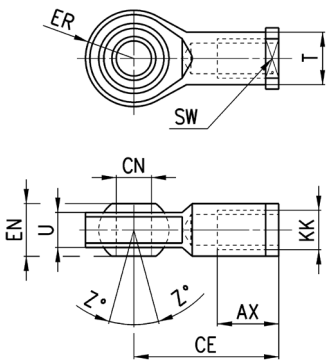
Mod.	Ø	D	m	SW
U-25-32	32	M10x1,25	6	17
U-40	40	M12x1,25	7	19
U-50-63	50-63	M16x1,5	8	24

Swivel ball joint Mod. GA



ISO 8139

Material:
zinc-plated steel

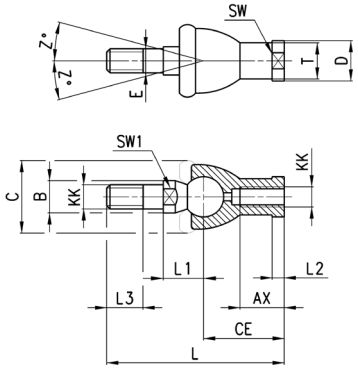


Mod.	Ø	øCN	U	EN	ER	AX	CE	KK	øT	Z	SW
GA-32	32	10	10,5	14	14	20	43	M10x1,25	15	6,5	17
GA-40	40	12	12	16	16	22	50	M12x1,25	17,5	6,5	19
GA-50-63	50-63	16	15	21	21	28	64	M16x1,5	22	7,5	22

Piston rod socket joint Mod. GY



Material:
zama and zinc-plated steel

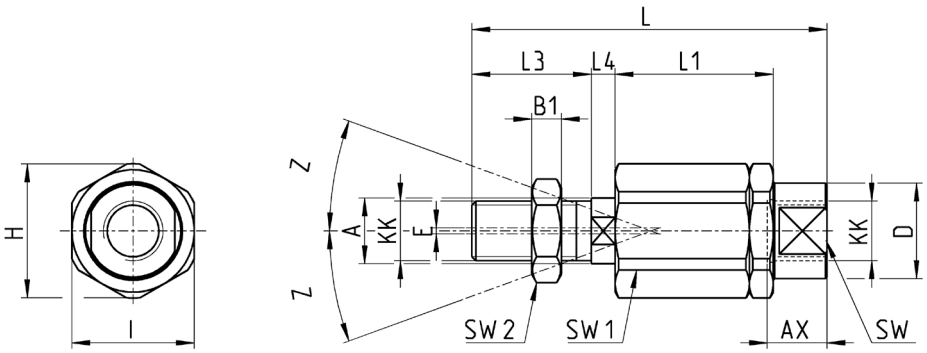


Mod.	Ø	KK	L	CE	L2	AX	SW	SW1	L1	L3	øT	øD	E	øB	øC	Z
GY-32	32	M10x1,25	74	35	6,5	18	17	11	19,5	15	15	19	10	14	28	15
GY-40	40	M12x1,25	84	40	6,5	20	19	17	22	17	17,5	22	12	19	32	15
GY-50-63	50-63	M16x1,5	112	50	8	27	22	19	27,5	23	22	27	16	22	40	11

Self aligning rod Mod. GK



Material:
zinc plated steel

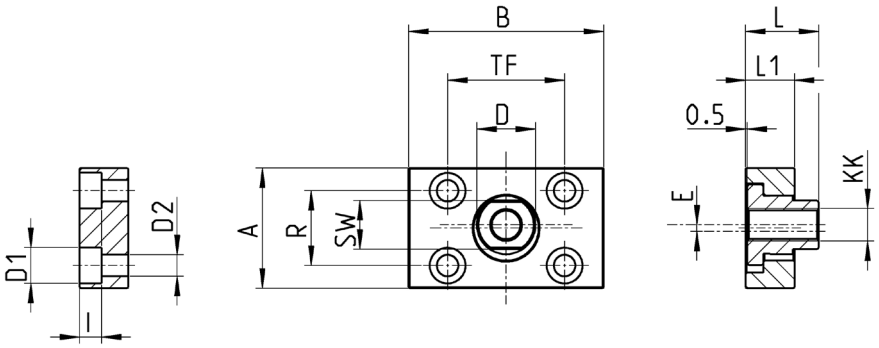


Mod.	Ø	KK	L	L1	L3	L4	øA	øD	H	I	SW	SW1	SW2	B1	AX	Z	E
GK-25-32	32	M10x1,25	71,5	35	20	7,5	14	22	32	30	19	12	17	5	22	4	2
GK-40	40	M12x1,25	75,5	35	24	7,5	14	22	32	30	19	12	19	6	22	4	2
GK-50-63	50-63	M16x1,5	104	53	32	10	22	32	45	41	27	20	24	8	30	3	2

Coupling piece Mod. GKF



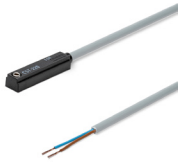
Material:
zinc-plated steel

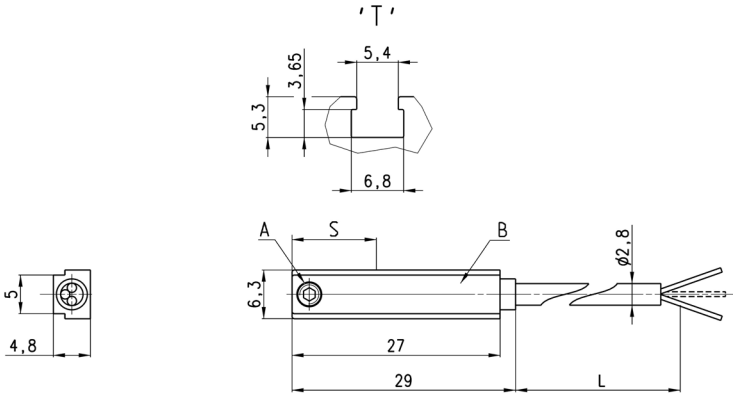


Mod.	Ø	KK	A	B	R	TF	L	L1	I	øD	øD1	ØD2	SW	E
GKF-25-32	32	M10x1,25	37	60	23	36	22,5	15	6,8	18	11	6,6	15	2
GKF-40	40	M12x1,25	56	60	38	42	22,5	15	9	20	15	9	15	2,5
GKF-50-63	50-63	M16x1,5	80	80	58	58	26,5	15	10,5	25	18	11	22	2,5

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Magnetic proximity switches with 2 or 3 wire cable for T-slot





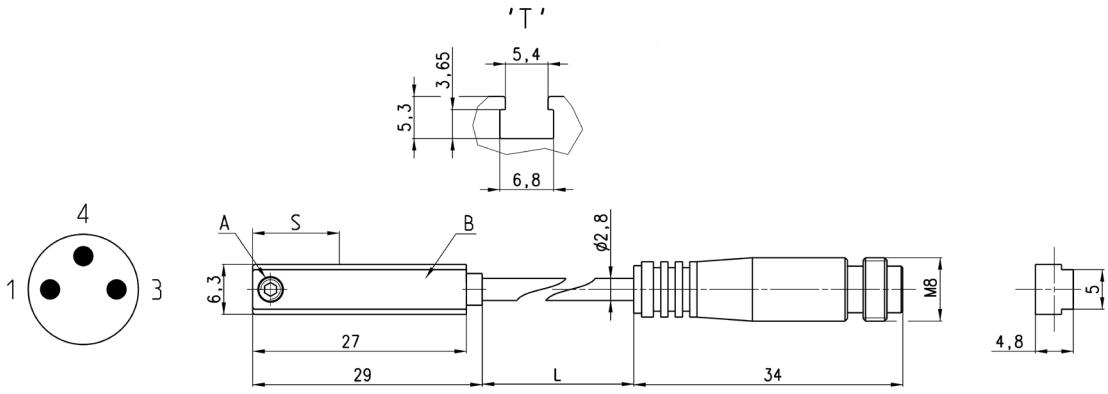
Mod.	Operation	Connections	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CST-220*	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	2 m	14,5 mm	Yellow
CST-220-5*	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8 W	None	5 m	14,5 mm	Yellow
CST-220EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	2 m	14,5 mm	Yellow
CST-220-5EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	5 m	14,5 mm	Yellow
CST-220-12EX	Reed	2 wires	10 ÷ 110 V AC/DC-230 V AC	-	250 mA	10 VA / 8W	None	12 m	14,5 mm	Yellow
CST-232	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-232-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	5 m	14,5 mm	Yellow
CST-232EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-232-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8W	Against polarity reversing and overvoltage	5 m	14,5 mm	Yellow
CST-332	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	7,5 mm	Yellow
CST-332-5	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	7,5 mm	Yellow
CST-332EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	7,5 mm	Yellow
CST-332-5EX	Magnetoresistive	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	7,5 mm	Yellow
CST-432	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-432-5	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m	14,5 mm	Yellow
CST-432EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	2 m	14,5 mm	Yellow
CST-432-5EX	Reed	3 wires	5 ÷ 30 V AC/DC	PNP-NC	250 mA	10 VA / 8 W	Against polarity reversing	5 m	14,5 mm	Yellow
CST-532	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	8,5 mm	Yellow
CST-532-5	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	8,5 mm	Yellow
CST-532EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	2 m	8,5 mm	Yellow
CST-532-5EX	Hall effect	3 wires	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	5 m	8,5 mm	Yellow

*Mod. CST-220, CST-220-5:
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

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Magnetic proximity switches with M8 3-pin connector for T-slot





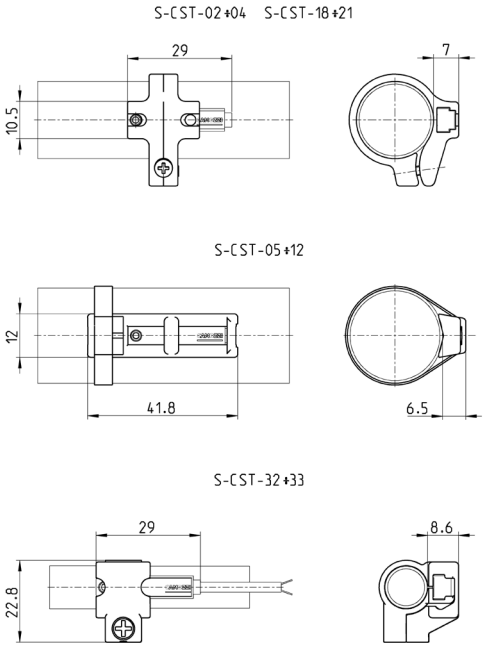
A = Fixing screw
B = Led indicator
S = Sensing point
L = Length cable

Mod.	Operation	Connection	Voltage	Output	Max. current	Max Load	Protection	L	S	LED colour
CST-250N*	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None	0,3 m	14,5 mm	Yellow
CST-250NEX	Reed	2 wires M8 male 3 pin	10 ÷ 110 V AC/DC	-	250 mA	10 VA / 8 W	None	0,3 m	14,5 mm	Yellow
CST-262	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	0,3 m	14,5 mm	Yellow
CST-262EX	Reed	3 wires M8 male 3 pin	5 ÷ 30 V AC/DC	PNP	250 mA	10 VA / 8 W	Against polarity reversing	0,3 m	14,5 mm	Yellow
CST-362	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	7,5 mm	Yellow
CST-362EX	Magnetoresistive	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	7,5 mm	Yellow
CST-562	Hall effect	3 wires M8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	8,5 mm	Yellow
CST-562EX	Hall effect	3 wiresM8 male 3 pin	10 ÷ 27 V DC	PNP	100 mA	6 W	Against polarity reversing and overvoltage	0,3 m	8,5 mm	Yellow

*Mod. CST-250N:
in case of polarity reversing the sensor will still be operating, but the LED diode won't turn on.

Adapters for Series CST-CSG sensors





Mod.	Cylinders Series	Ø
S-CST-18	27, 42	32
S-CST-19	27, 42	40
S-CST-20	27, 42	50
S-CST-21	27, 42	63

Further details can be found in the "Proximity switch" chapter.

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