

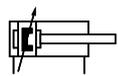
Technical details

Operating pressure	1 ... 10 bar
Temperature range	-35°C ... +80°C (XLA, XLAD, XLAL) (XLAH: -10°C ... +150°C, XLAC/ XLACD: -40°C ...+80°C)
Max. stroke	2.800 mm
Medium	Filtered, oil-free and dried compressed air according to ISO 8573-1:2010, Class 7:2:4, instrument air, free of aggressive additives. Differing the pressure dew point must be at least 10°C below lowest occurring ambient temperature.
Materials	cylinder tube: Al (anodized) End caps: Al-die-cast (painted) Piston rod: steel hard chrome plated (optional 1.4301) Seals: PU, NBR (optional FKM)
	Cylinders in accordance with 2014/34/EU (ATEX) available.

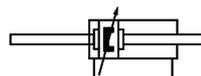


Double acting Al-profile cylinder with integrated sensor grooves, adjustable cushions and magnetic piston for proximity sensors. The sensors can be installed directly into the sensor grooves of the Al-profile. Standard stroke lengths in table below, additional lengths on request.

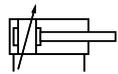
Versions



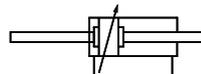
050, 054, 000, 004
double acting, adjustable cushioning, with magnetic piston



450, 454, 400, 404
double acting, double end piston rod, adjustable cushioning, with magnetic piston

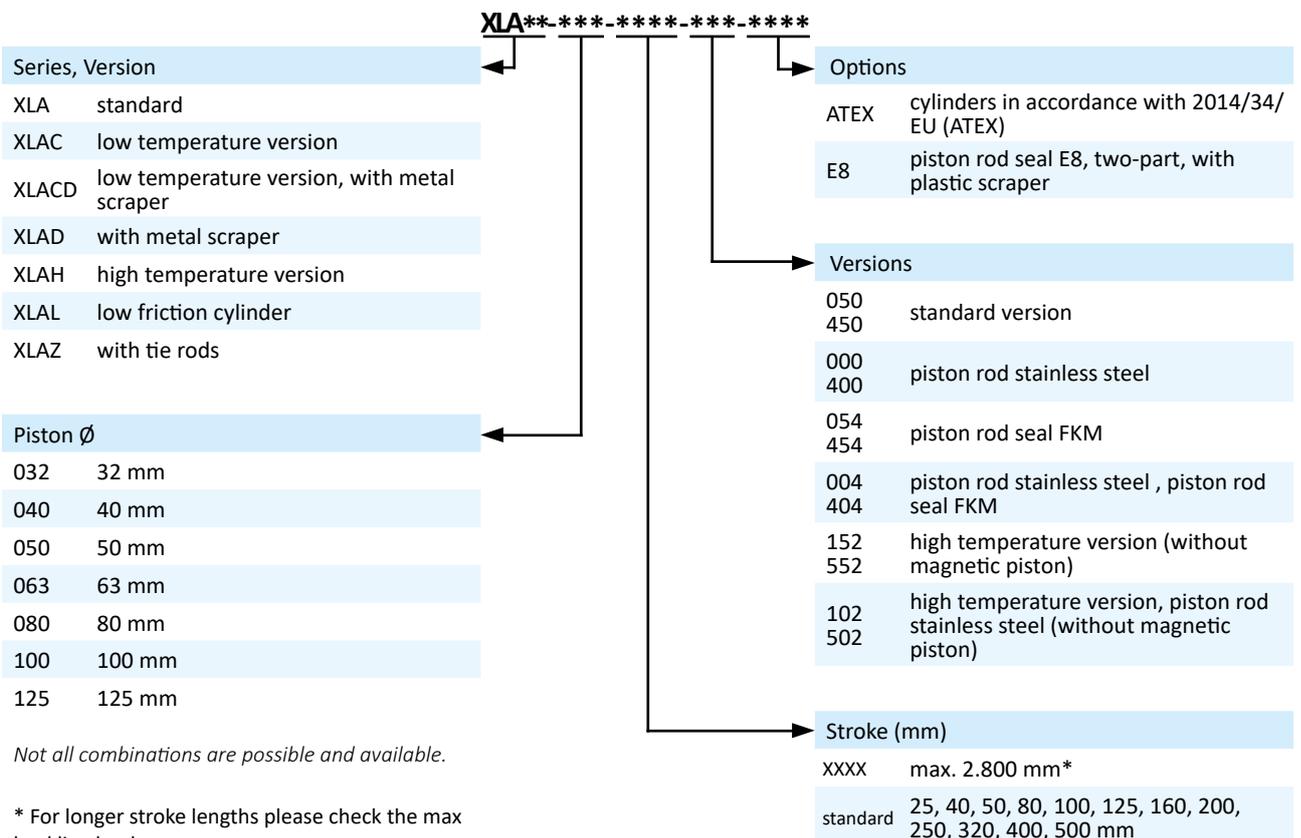


152, 102
double acting, adjustable cushioning



552, 502
double acting, double end piston rod, adjustable cushioning

Order code



Not all combinations are possible and available.

* For longer stroke lengths please check the max buckling load.



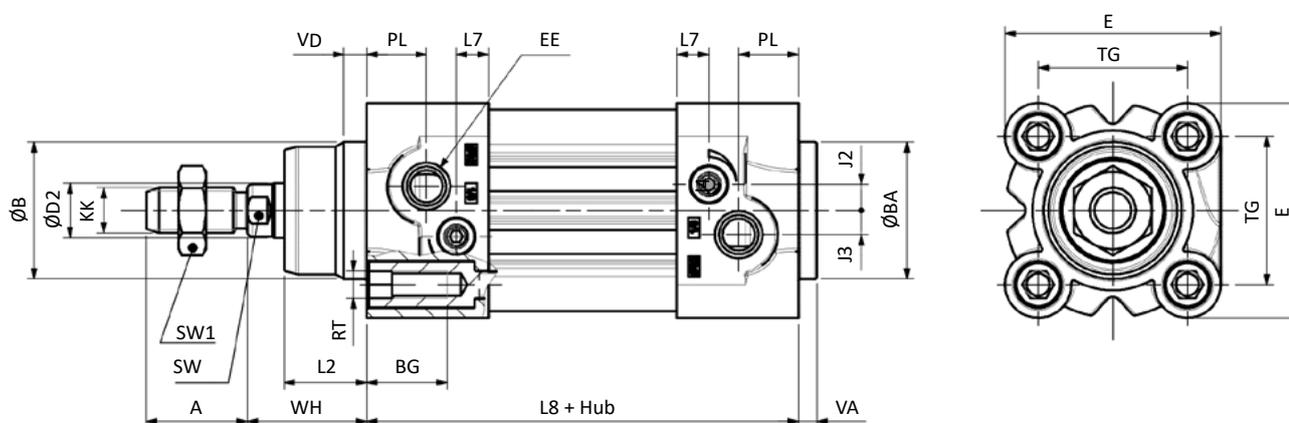
Series XLA

ISO 1552, double acting

Technical data

Model-no.:	XLA-032-...	XLA-040-...	XLA-050-...	XLA-063-...	XLA-080-...	XLA-100-...	XLA-125-...
Piston \varnothing (mm)	32	40	50	63	80	100	125
Force at 6 bar (N)	Extension	434	678	1060	1682	2713	6623
	Retraction	373	570	890	1513	2448	6189
Connection	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2
Piston rod thread	M10 x 1.25	M12 x 1.25	M16 x 1.5	M16 x 1.5	M20 x 1.5	M20 x 1.5	M27 x 2
Cushioning length (mm)	27	29	32	32	32	32	42

Dimensions series XLA

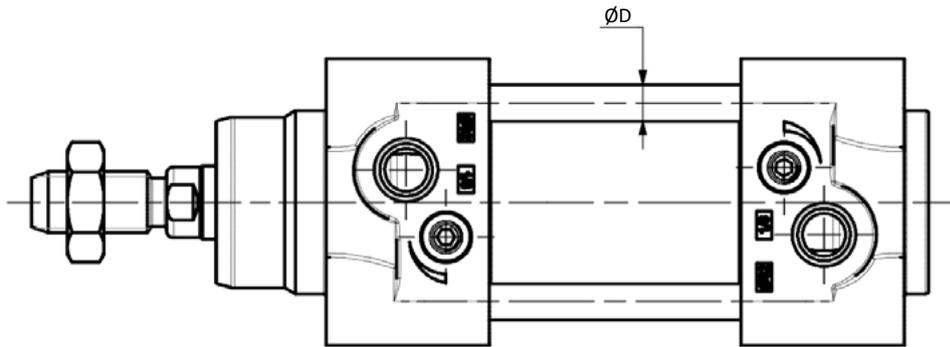


Piston \varnothing	A	$\varnothing B$	$\varnothing BA$	$\varnothing D2$	E	EE	J4	KK	L2
32	22	30	30	12	47	G1/8	6	M10 x 1.25	18
40	24	35	35	16	54	G1/4	9	M12 x 1.25	22
50	32	40	40	20	63	G1/4	8	M16 x 1.5	25.5
63	32	45	45	20	74	G3/8	9.5	M16 x 1.5	25
80	40	45	45	25	93.5	G3/8	14	M20 x 1.5	35
100	40	55	55	25	110	G1/2	15	M20 x 1.5	38
125	54	60	60	32	137.5	G1/2	15	M27 x 2	46

Piston \varnothing	L7	L8	PL	RT	SW	SW1	TG	VA	VD	WH
32	11.5	94	12.5	M6	10	17	32.5	4	9.5	26
40	13	105	14	M6	13	19	38	4	9.5	30
50	12.75	106	14	M8	17	24	46.5	4	9.5	37
63	14.5	121	16.5	M8	17	24	56.5	4	9.5	37
80	13.75	128	17	M10	22	30	72	4	10	46
100	15.5	138	18	M10	22	30	89	4	10	51
125	20	160	18	M12	27	41	110	6	11	65

Piston \varnothing (mm)	32	40	50	63	80	100	125
Weight (kg) 0 mm stroke	0.617	0.925	1.421	1.950	3.250	4.396	6.391
Weight (kg) each 100 mm stroke	0.286	0.403	0.528	0.597	0.861	0.946	1.517

Dimensions series XLAZ (Ergänzungen bei Zugstangenausführung)

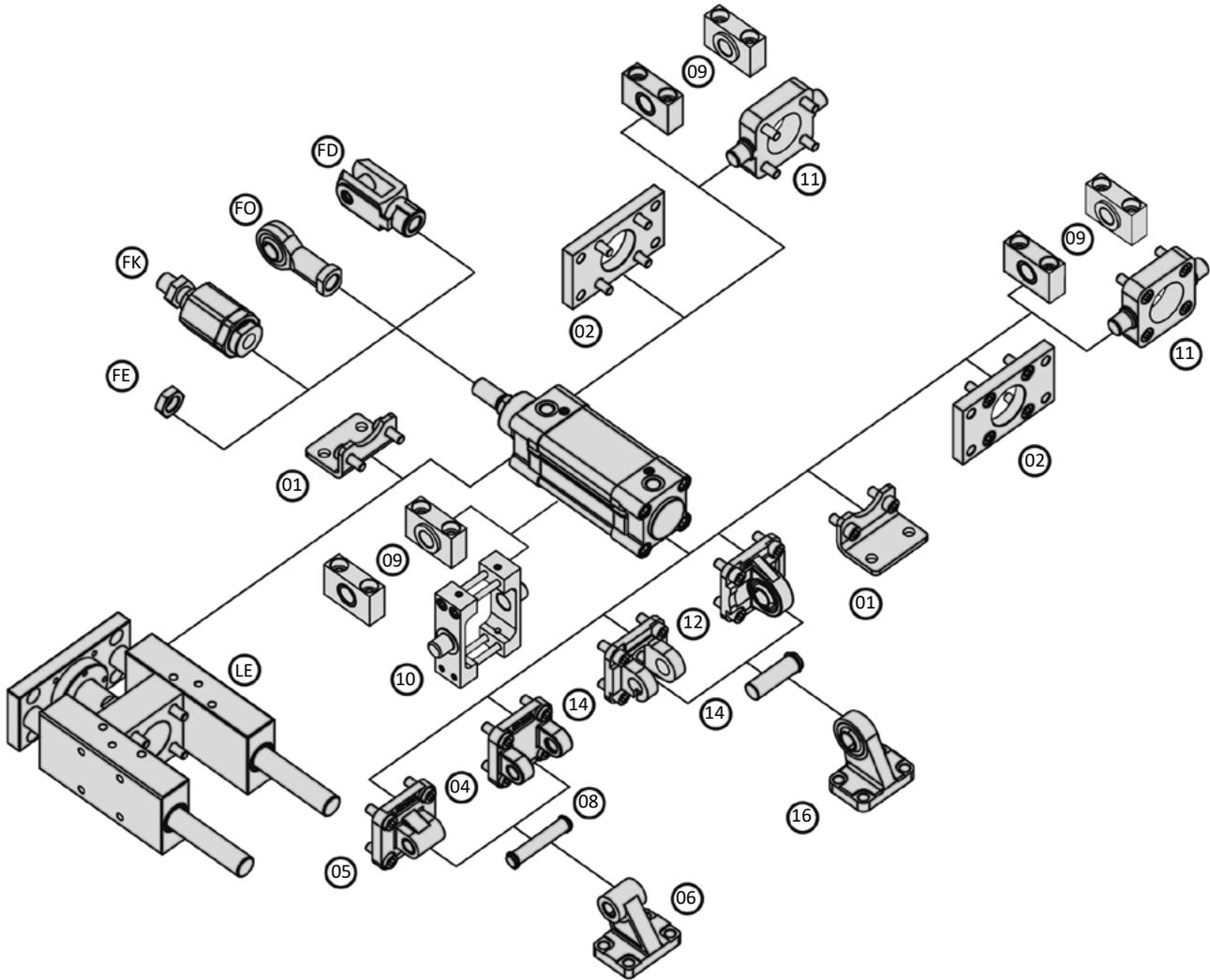


Piston Ø (mm)	32	40	50	63	80	100	125
ØD	6	6	8	8	10	10	12

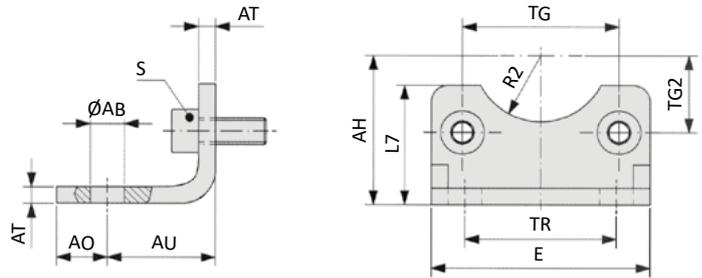
Series XLA

Mounting accessories

Mounting the add-on parts XLB-xxx-yy



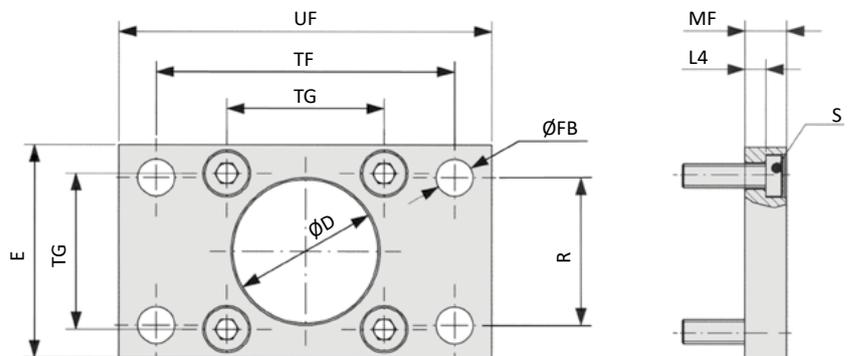
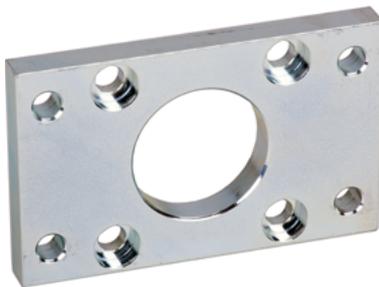
XLB-xxx-01 Foot mount



Model-no.:	Ø AB	AH	AO	AU	AT	E	L7	R2	S	TG	TG2	TR
XLB-032-01	7	32	11	24	4	45	30	15	M6 x 16	32.5	16.25	32
XLB-040-01	10	36	8	28	4	52	30	17.5	M6 x 16	38	19	36
XLB-050-01	10	45	15	32	5	65	36	20	M8 x 20	46.5	23.25	45
XLB-063-01	10	50	13	32	5	75	35	22.5	M8 x 20	56.5	28.25	50
XLB-080-01	12	63	14	41	6	95	47	22.5	M10 x 20	72	36	63
XLB-100-01	14.5	71	16	41	6	115	53	27.5	M10 x 20	89	44.5	75
XLB-125-01	16.5	90	25	45	8	140	70	30	M12 x 25	110*	55	90
<i>tolerances and adjustments</i>	H14	JS16		± 0.2				H15		± 0.2 *± 0.3		JS14

Materials: steel, zinc plated; 2 x 2 screws in accordance with EN ISO 4762 are included.

XLB-xxx-02 Flange mount



Model-no.:	Ø D	E	Ø FB	L4	MF	R	S	TF	TG	UF
XLB-032-02	30	45	7	5	10	32	M6 x 20	64	32.5	80
XLB-040-02	35	52	9	5	10	36	M6 x 20	72	38	90
XLB-050-02	40	65	9	6.5	12	45	M8 x 20	90	46.5	110
XLB-063-02	45	75	9	6.5	12	50	M8 x 20	100	56.5	120
XLB-080-02	45	95	12	9	16	63	M10 x 25	126	72	150
XLB-100-02	55	115	14	9	16	75	M10 x 25	150	89	170
XLB-125-02	60	140	16	10.5	20	90	M12 x 25	180	110*	205
<i>tolerances and adjustments</i>	H11		H13	- 0.5	JS14	JS14		JS14	± 0.2 *± 0.3	

Materials: steel, zinc plated; 4 screws in accordance with DIN 7984 are included.

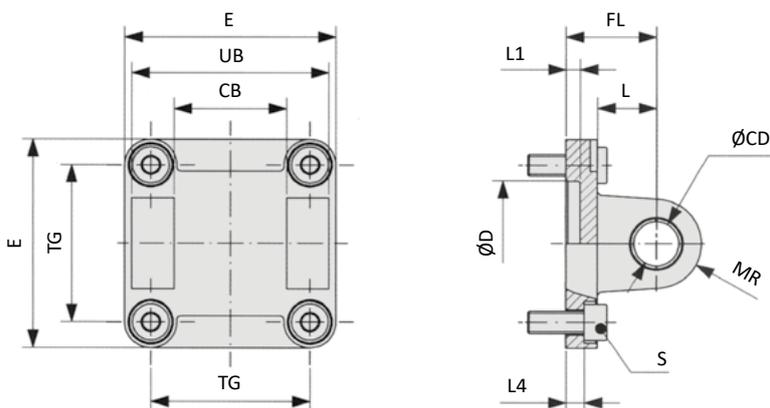
Series XLA

Mounting accessories

XLB-xxx-04 Clevis mount with bushing



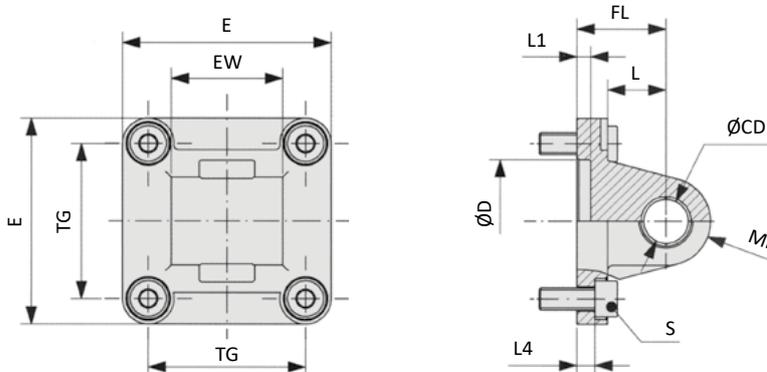
Inclusive clevis pin
order no.: XLB-xxx-48



Model-no.:	CB	Ø CD	Ø D	E	FL	L	L1	L4	MR	S	TG	UB
XLB-032-04	26	10	30	45	22	13	5	5.5	10	M6 x 20	32.5	45
XLB-040-04	28	12	35	52	25	16	5	5.5	12	M6 x 20	38	52
XLB-050-04	32	12	40	65	27	16	5	6.5	12	M8 x 20	46.5	60
XLB-063-04	40	16	45	75	32	21	5	6.5	16	M8 x 20	56.5	70
XLB-080-04	50	16	45	95	36	22	5	10	16	M10 x 25	72	90
XLB-100-04	60	20	55	115	41	27	5	10	20	M10 x 25	89	110
XLB-125-04	70	25	60	140	50	30	7	10	25	M12 x 25	110*	130
<i>tolerances and adjustments</i>	H14	H9	H11		± 0.2			± 0.5			± 0.2 *± 0.3	h13

Materials: Al, bushing steel and PTFE; 4 screws in accordance with EN ISO 4762 are included.

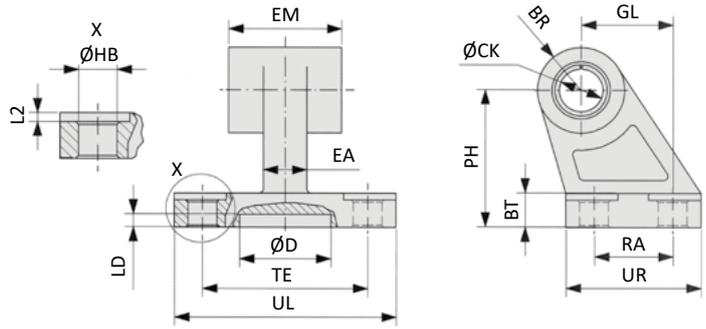
XLB-xxx-05 Swivel mount



Model-no.:	Ø CD	Ø D	E	EW	FL	L	L1	L4	MR	S	TG
XLB-032-05	10	30	45	26	22	13	5	5.5	10	M6 x 20	32.5
XLB-040-05	12	35	52	28	25	16	5	5.5	12	M6 x 20	38
XLB-050-05	12	40	65	32	27	16	5	6.5	12	M8 x 20	46.5
XLB-063-05	16	45	75	40	32	21	5	6.5	16	M8 x 20	56.5
XLB-080-05	16	45	95	50	36	22	5	10	16	M10 x 25	72
XLB-100-05	20	55	115	60	41	27	5	10	20	M10 x 25	89
XLB-125-05	25	60	140	70	50	30	7	10	25	M12 x 25	110*
<i>tolerances and adjustments</i>	H9	H11			± 0.2			± 0.5			± 0.2 *± 0.3

Materials: Al, bushing steel and PTFE; 4 screws in accordance with EN ISO 4762 are included.

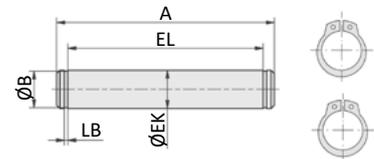
XLB-xxx-06 Swivel mount 90°



Model-no.:	BR	BT	ØCK	Ø D	EA	EM	GL	ØHB	L2	LD	PH	RA	TE	UL	UR
XLB-032-06	10	8	10	21	10	26	21	6.6	1.6	3	32	18	38	51	31
XLB-040-06	11	10	12	21	15	28	24	6.6	1.6	3	36	22	41	54	35
XLB-050-06	13	12	12	21	16	32	33	9	1.6	3	45	30	50	65	45
XLB-063-06	15	14	16	21	16	40	37	9	1.6	3	50	35	52	67	50
XLB-080-06	15	14	16	21	20	50	47	11	2.5	3	63	40	66	86	60
XLB-100-06	19	17	20	11	20	60	55	11	2.5	3	71	50	76	96	70
XLB-125-06	22.5	20	25	21	30	70	70	14	3.2	3	90	60	94	124	90
<i>tolerances and adjustments</i>			H9				JS14	H13			JS15	JS14	JS14		

Materials: Al, bushing steel and PTFE

XLB-xxx-08 Clevis pin



Model-no.:	A	Ø B	Ø EK	EL	LB
XLB-032-08	53	9.6	10	46	1.1
XLB-040-08	60	11.5	12	53	1.1
XLB-050-08	68	11.5	12	61	1.1
XLB-063-08	78	15.2	16	71	1.1
XLB-080-08	98	15.2	16	91	1.1
XLB-100-08	118	19	20	111	1.3
XLB-125-08	139	23.9	25	132*	1.3

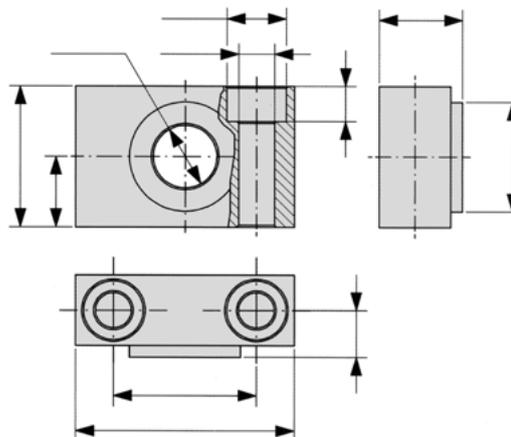
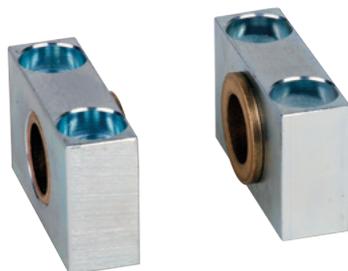
tolerances and adjustments

Materials: steel, zinc plated; 2 snap rings are included.

Series XLA

Mounting accessories

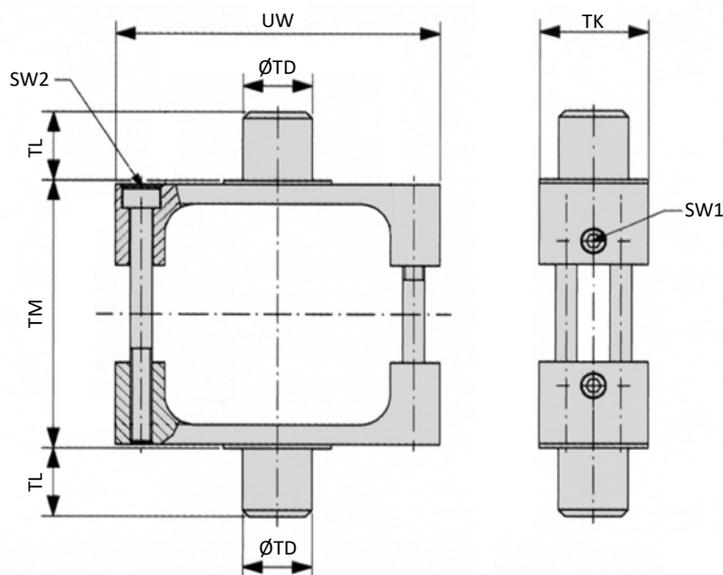
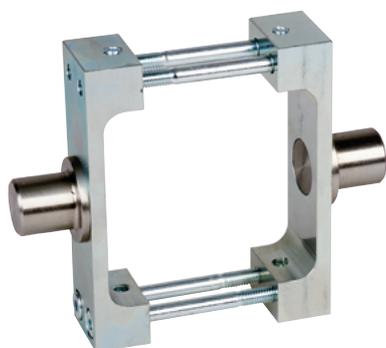
XLB-xxx-09 Bearing block



Model-no.:	for cylinder \varnothing	$\varnothing A$	$\varnothing B$	C	$\varnothing CR$	FK	FN	$\varnothing HB$	LA	NH	TH	UL
XLB-032-09	32	11	22	10.5	12	15	30	6.6	7	18	32	46
XLB-040-09	40, 50	15	28	12	16	18	36	9	9	21	36	55
XLB-063-09	63, 80	18	32	13	20	20	40	11	11	23	42	65
XLB-100-09	100, 125	20	39	16	25	25	50	14	13	28.5	50	75
<i>tolerances and adjustments</i>					H9	± 0.1		H13			± 0.2	

Materials: steel, zinc plated; bronze bushing

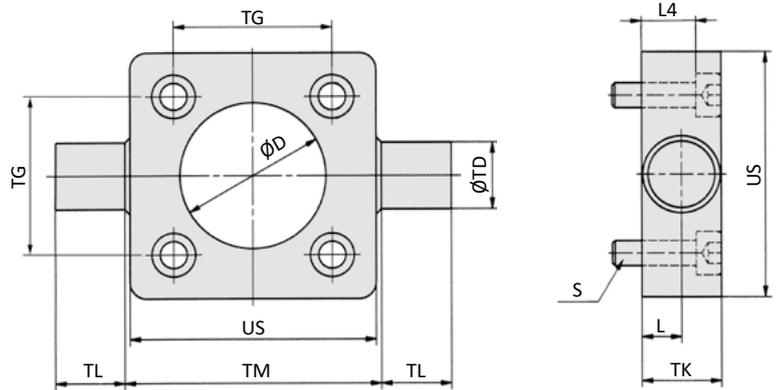
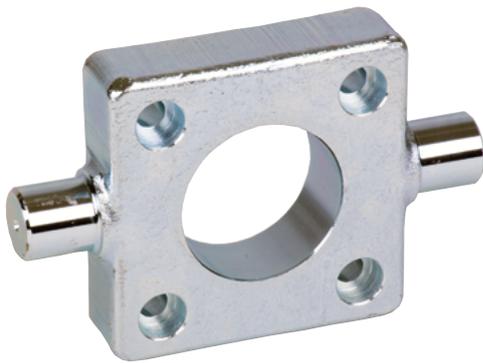
XLB-xxx-10 Trunnion mount (only for cylinder series XLA)



Model-no.:	SW1	SW2	$\varnothing TD$	TK	TL	TM	UW
XLB-032-10	3	2.5	12	25	12	50	65
XLB-040-10	3	3	16	25	16	63	75
XLB-050-10	3	4	16	30	16	75	95
XLB-063-10	3	4	20	30	20	90	105
XLB-080-10	3	4	20	30	20	110	130
XLB-100-10	4	5	25	40	25	132	145
XLB-125-10	4	6	25	40	25	160	175
<i>tolerances and adjustments</i>			e9		h14		

Materials: steel, zinc plated

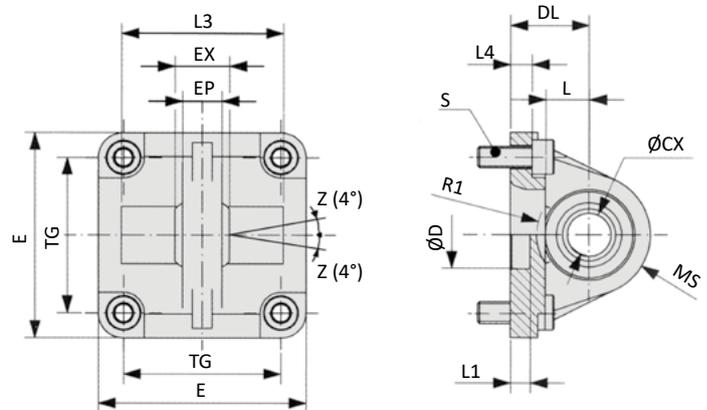
XLB-xxx-11 Trunnion mount



Model-no.:	Ø D	L	L4	S	Ø TD	TG	TK	TL	TM	US
XLB-032-11	30	6.5	8	M6 x 20	12	32.5	14	12	50	46
XLB-040-11	35	9	13	M6 x 25	16	38	19	16	63	59
XLB-050-11	40	9	11	M8 x 25	16	46.5	19	16	75	69
XLB-063-11	45	11.5	16	M8 x 30	20	56.5	24	20	90	84
XLB-080-11	45	11.5	14	M10 x 30	20	72	24	20	110	102
XLB-100-11	55	14	19	M10 x 35	25	89	29	25	132	125
XLB-125-11	60	15	18	M12 x 35	25	110*	30	25	160	150
<i>tolerances and adjustments</i>	H 11	+ 0.2			e9	± 0.2 *± 0.3		h14	h14	

Materials: steel, zinc plated; 4 screws in accordance with EN ISO 4762 are included.

XLB-xxx-12 Swivel mount with spherical bearing

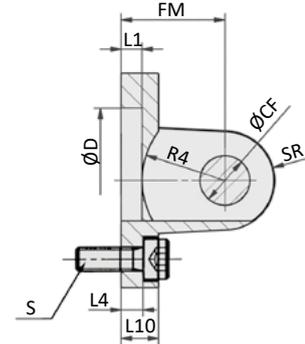
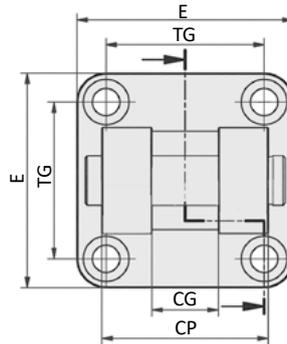


Model-no.:	Ø CX	Ø D	DL	E	EP	EX	L	L1	L3	L4	MS	R1	S	TG	
XLB-032-12	10	30	22	45	10.5	14	12	7	-	5.5	16	-	M6 x 20	32.5	
XLB-040-12	12	35	25	52	12	16	15	7	-	5.5	18	-	M6 x 20	38	
XLB-050-12	16	40	27	65	15	21	15	7	51	6.5	21	19	M8 x 20	46.5	
XLB-063-12	16	45	32	75	15	21	20	7	-	6.5	23	-	M8 x 20	56.5	
XLB-080-12	20	45	36	95	18	25	20	9	74	10	28	24	M10 x 25	72	
XLB-100-12	20	55	41	115	18	25	25	9	-	10	30	-	M10 x 25	89	
XLB-125-12	30	60	50	140	25	37	30	9	-	10	40	-	M12 x 25	110*	
<i>tolerances and adjustments</i>	H7	H11	± 0.2												± 0.2 *± 0.3

Materials: Al, bearing steel, bronze bushing; 4 screws in accordance with EN ISO 4762 are included.

Series XLA Mounting accessories

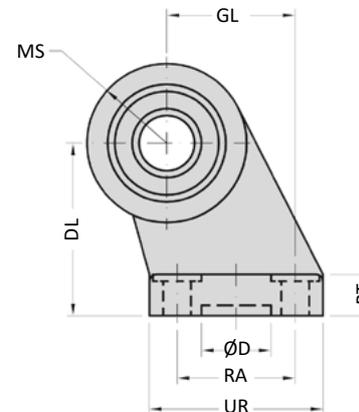
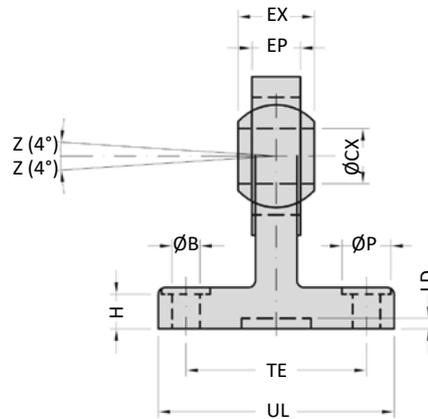
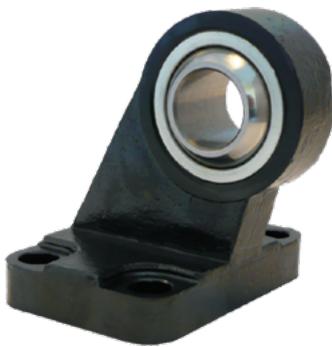
XLB-xxx-14 Clevis mount small with pin



Model-no.:	Ø CF	CG	CP	Ø D	E	FM	L1	L4	L10	R4	S	SR	TG
XLB-032-14	10	14	34	30	45	22	5	5.5	9	17	M6 x 20	10	32.5
XLB-040-14	12	16	40	35	52	25	5	5.5	9	20	M6 x 20	12	38
XLB-050-14	16	21	45	40	65	27	5	6.5	11	22	M8 x 20	14	46.5
XLB-063-14	16	21	51	45	75	32	5	6.5	11	25	M8 x 20	18	56.5
XLB-080-14	20	25	65	45	95	36	5	10	14	30	M10 x 25	20	72
XLB-100-14	20	25	75	55	115	41	5	10	14	32	M10 x 25	22	89
XLB-125-14	30	37	97	60	140	50	7	10	20	42	M12 x 25	25	110*
<i>tolerances and adjustments</i>	F7	D10	d12	H11		± 0.2		± 0.5					± 0.2 *± 0.3

Materials: Al, clevis pin steel, zinc plated; 4 screws in accordance with EN ISO 4762 are included.

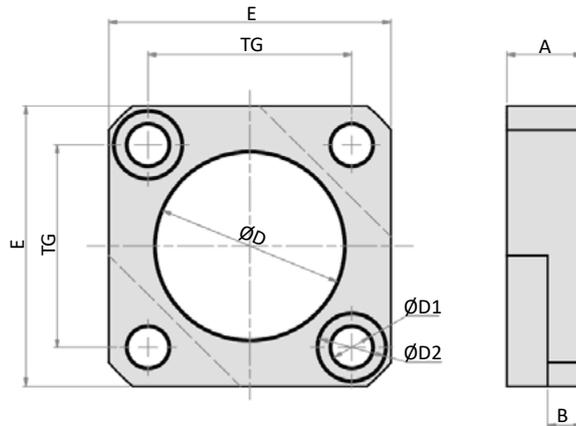
XLB-xxx-16 Swivel mount with spherical bearing 90°



Model-no.:	Ø B	BT	ØCX	ØD	DL	EP	EX	GL	H	LD	MS	ØP	RA	TE	UL	UR
XLB-032-16	6.6	10	10	20	32	10.5	14	21	8.5	3	15	11	18	38	51	31
XLB-040-16	6.6	10	12	20	36	12	16	24	8.5	3	18	11	22	41	54	35
XLB-050-16	9	12	16	20	45	15	21	33	10.5	3	20	15	30	50	65	45
XLB-063-16	9	12	16	20	50	15	21	37	10.5	3	23	15	35	52	67	50
XLB-080-16	11	14	20	20	63	18	25	47	11.5	3	27	18	40	66	86	60
XLB-100-16	11	15	20	20	71	18	25	55	12.5	3	30	18	50	76	96	70
XLB-125-16	13.5	20	30	20	90	25	37	70	17	3	40	20	60	94	124	90
<i>tolerances and adjustments</i>	H13		H7	H13	JS15	max	0 -0.1	JS15	+0.5 0		max	H13	JS14	JS14	max	max

Materials: steel, bearing steel, bronze bushing

XLB-xxx-23 Multi positioning adapter



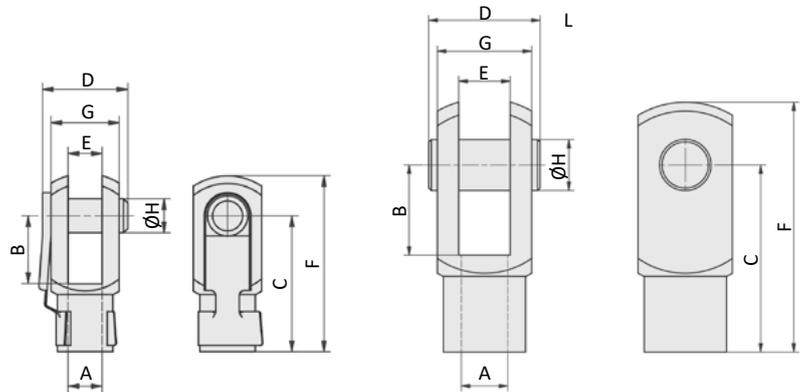
Model-no.:	A	B	Ø D	Ø D1	Ø D2	E	TG
XLB-032-23	12	5.5	30	6.5	10.6	45	32.5
XLB-040-23	12	5.5	35	6.5	10.6	50	38
XLB-050-23	16	7.5	40	8.5	13.5	65	46.5
XLB-063-23	16	7.5	45	8.5	13.5	75	56.5
XLB-080-23	20	9	45	10.5	16.5	90	72
XLB-100-23	20	10.5	55	10.5	16.5	105	89
XLB-125-23	30	15	68	12.5	18.5	130	110

Materials: Al
Mounting material is part of the delivery.

RD-xx, FD-xxx Rod clevis

Spring loaded pin (RD-25, FD-40...80)

Clevis pin with snap rings (FD-125)

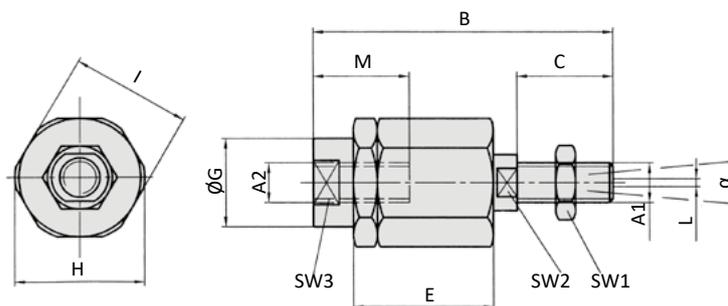


Model-no.:	for cylinder Ø	A	B	C	D	E	F	G	Ø H
RD-25	32	M10 x 1.25	20	40	26	10	52	20	10
FD-40	40	M12 x 1.25	24	48	32	12	62	24	12
FD-63	50, 63	M16 x 1.5	32	64	40	16	83	32	16
FD-80	80, 100	M20 x 1.5	40	80	50	20	105	40	20
FD-125	125	M27 x 2	54	110	65	30	148	55	30

Materials: steel, zinc plated

Series XLA Mounting accessories

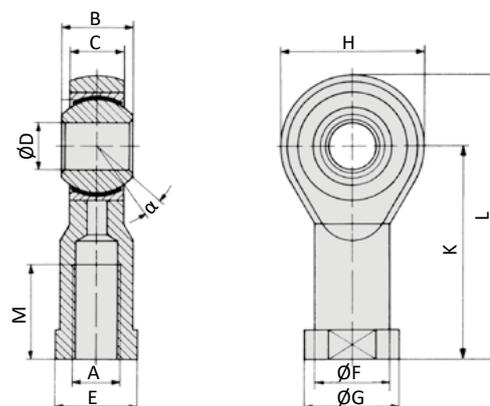
FK-xxx Flexible coupling



Model-no.:	for cylinder Ø	A1, A2	B	C	D	E	ØG	H	I	L	M	SW1	SW2	SW3	α
FK-32	32	M10 x 1.25	71.5	20	7.5	35	22	32	30	2	22	17	12	19	8°
FK-40	40	M12 x 1.25	75	24	7.5	35	22	32	30	2	22	19	12	19	8°
FK-63	50, 63	M16 x 1.5	104	32	10	53	32	45	41	2	30	24	20	27	6°
FK-80	80, 100	M20 x 1.5	119	40	10	53	32	45	41	2	37	30	20	30	6°
FK-125	125	M27 x 2	147	54	10	60	57	70	65	2	48	41	24	54	8°

Materials: steel, zinc plated

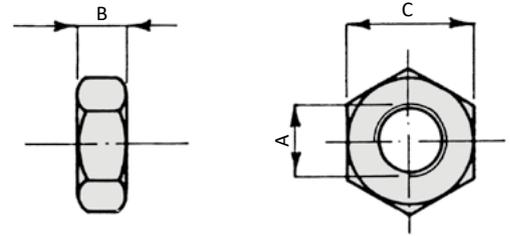
RO-xx, FO-xxx Rod eye



Model-no.:	for cylinder Ø	A	B	C	ØD	E	ØF	ØG	H	K	L	M	α
RO-25	32	M10 x 1.25	14	10.5	10	17	15	19	28	43	57	20	13°
FO-40	40	M12 x 1.25	16	12	12	19	17.5	22	32	50	66	22	13°
FO-63	50, 63	M16 x 1.5	21	15	16	22	22	27	42	64	85	28	15°
FO-80	80, 100	M20 x 1.5	25	18	20	30	27.5	34	50	77	102	33	14°
FO-125	125	M27 x 2	37	25	30	41	40	50	70	110	145	51	17°

Materials: steel, zinc plated, bearing steel, bronze bushing

RL-xx, FE-xxx Piston rod nut



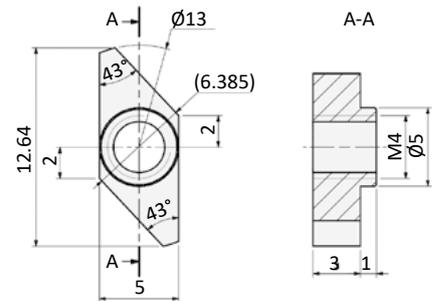
Model-no.:	for cylinder Ø	A	B	C
RL-25	32	M10 x 1.25	5	17
FE-40	40	M12 x 1.25	6	19
FE-63	50, 63	M16 x 1.5	8	24
FE-80	80, 100	M20 x 1.5	10	30
FE-125	125	M27 x 2	13.5	41

Materials: steel, zinc plated

NST-T-4-U Slot nut



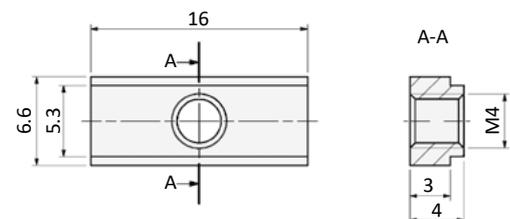
Materials: steel, zinc plated



NST-T-4-V Slot nut



Materials: steel, zinc plated

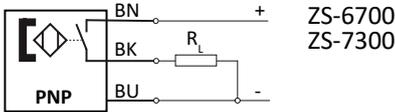
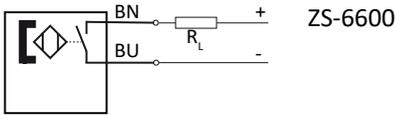


Proximity sensors

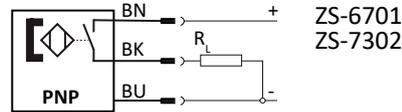
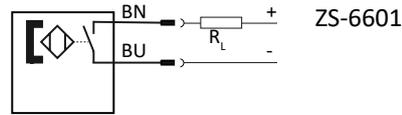


Series ZS Proximity sensors

Proximity sensors with cable



Proximity sensors with plug



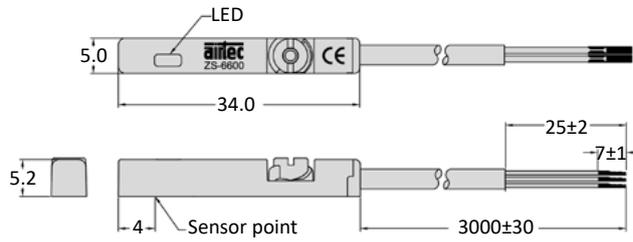
Technical data

Model-no.:	ZS-6600	ZS-6601	ZS-6700	ZS-6701
Design	2-pole inductive	2-pole inductive	3-pole inductive	3-pole inductive
Contact function	NO	NO	NO	NO
Output	NO	NO	PNP	PNP
Rated operational voltage	10 ... 30 V DC	10 ... 30 V DC	5 ... 30 V DC	5 ... 30 V DC
Rated operational current I_e	≤ 50 mA	≤ 50 mA	≤ 100 mA	≤ 100 mA
Max. voltage drop at I_e	≤ 2.65	≤ 2.65	≤ 1.0	≤ 1.0
Breaking capacity	1,4 W	1,4 W	3 W	3 W
Sensitivity	40 ~ 800 Gauss	40 ~ 800 Gauss	40 ~ 800 Gauss	40 ~ 800 Gauss
Cable length	3 m	0.3 m with M8 connection	3 m	0.3 m with M8 connection
Reverse polarity protection	nein	nein	ja	ja
Temperature range	-10 ... +70°C	-10 ... +70°C	-10 ... +70°C	-10 ... +70°C
Protection	IP 67	IP 67	IP 67	IP 67
Switching status indication	LED red	LED red	LED red	LED red

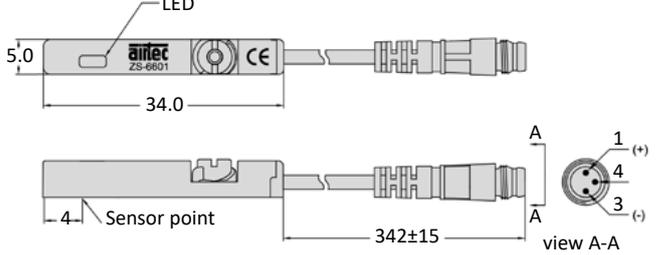
Model-no.:	ZS-7300	ZS-7302
Design	3-pole inductive	3-pole inductive
Contact function	NO	NO
Output	PNP	PNP
Rated operational voltage	10 ... 30 V DC	10 ... 30 V DC
Rated operational current I_e	≤ 100 mA	≤ 100 mA
Max. voltage drop at I_e	≤ 2.5	≤ 2.5
Breaking capacity	3 W	3 W
Cable length	6 m	0.3 m with M12 connection
Temperature range	-20 ... +60°C	-20 ... +60°C
Protection	IP 67	IP 67
Switching status indication	LED yellow	LED yellow
	II 3G Ex nA T4 II 3D Ex tD A22 IP67 T 125°C	II 3D Ex tc IIIC T125°C Dc X

Dimensions

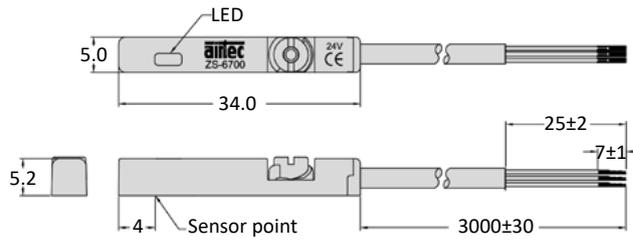
ZS-6600



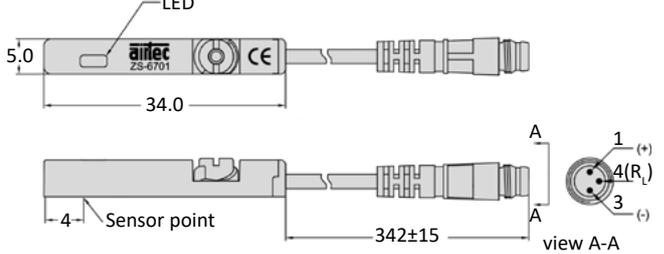
ZS-6601



ZS-6700



ZS-6701



Mounting

The sensors are mounted at the groove of the cylinder profile. It is fixed by turning the fixing screw at the sensor clockwise. The cover stripe XLB-011 (see below) can be used for protecting the sensor cable.

A direct sensor mounting is possible for following series:

Series SLX, Series XLA, Series 88-XSI

Cover for sensor groove

Model-no.:	XLB-011
Design	plastic profile, 50 cm length, blue
For series	XLA, NXD, NXE, NYD, NYE, NYSE, LX



Series ZS Proximity sensors

Connection cable M8

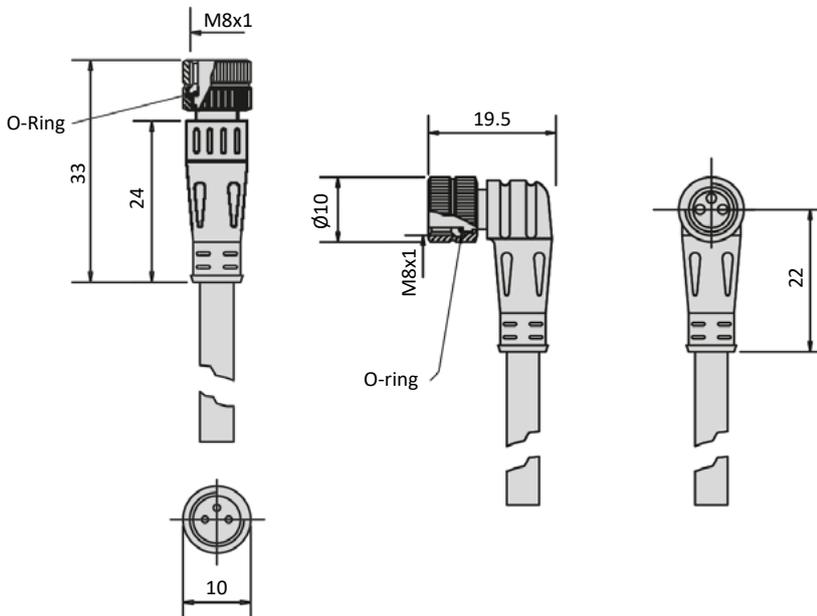
Contacts	M8 Plug socket
Protection	IP 67 according to EN 60529 in conjunction with suitable connection plug
Duty cycle	100 %
Temperature range*	-25°C...+90°C
max. voltage	60 V AC / DC
Use for	Solenoids with M8 plug, cylinder switch with M8 plug



Model-no.:	KA-10-01	KA-30-01	KA-50-01	KA-100-01
Contacts	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight
Mounting	Coupling nut	Coupling nut	Coupling nut	Coupling nut
Cable	3-pin	3-pin	3-pin	3-pin
Length (L)	1 m	3 m	5 m	10 m

Model-no.:	KA-11-01	KA-31-01	KA-51-01	KA-101-01
Contacts	M8 Socket, elbow 90°			
Mounting	Coupling nut	Coupling nut	Coupling nut	Coupling nut
Cable	3-pin	3-pin	3-pin	3-pin
Length (L)	1 m	3 m	5 m	10 m

Dimensions

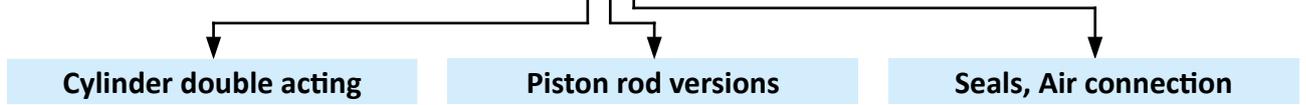


Pin assignment



- 1 = brown
- 3 = blue
- 4 = black

Cylinder - * * * - xxxx



Cylinder double acting	
0	piston rod on one side with magnetic piston adjustable cushioning
1	piston rod on one side adjustable cushioning
2	piston rod on one side with magnetic piston
3	piston rod on one side
4	double end piston rod with magnetic piston adjustable cushioning
5	double end piston rod adjustable cushioning
6	double end piston rod with magnetic piston
7	double end piston rod
8	double end piston rod through hollow with magnetic piston

Cylinder single acting	
0	piston rod on one side with magnetic piston normally retracted
1	piston rod on one side normally retracted
2	piston rod on one side with magnetic piston normally extended
3	piston rod on one side normally extended
4	double end piston rod with magnetic piston
5	double end piston rod

Piston rod versions	
0	piston rod stainless steel male thread
1	piston rod stainless steel female thread
2	piston rod stainless steel female thread with guide and non rotating
3	piston rod stainless steel male thread non rotating
4	piston rod stainless steel female thread non rotating
5	piston rod steel hard chrome plated male thread
6	piston rod steel hard chrome plated female thread
7	Doppelkolbenstange
8	piston rod stainless steel without thread
9	piston rod steel hard chrome plated female thread with guide and non rotating
Axxx	piston rod stainless steel male thread lengthened by xxx mm [#]
Bxxx	piston rod stainless steel female thread lengthened by xxx mm
Cxxx	piston rod steel hard chrome plated male thread lengthened by xxx mm [#]
Dxxx	piston rod steel hard chrome plated female thread lengthened by xxx mm [#]
Exxx	piston rod stainless steel without thread lengthened by xxx mm [#]
Fxxx	piston rod steel hard chrome plated without thread lengthened by xxx mm [#]
V	piston rod stainless steel AISI 316 (1.4401) male thread

Seals, Air connection	
0	standard seals (PUR, NBR) air connection G thread
1	standard seals (PUR, NBR) air connection NPT thread
2	high temperature version (FKM) air connection G thread
3	high temperature version (FKM) air connection NPT thread
4	standard seals (NBR) piston rod seal FKM air connection G thread
5	standard seals (NBR) piston rod seal FKM air connection NPT thread

xxxx - Additions*	
ATEX EX X	cylinders in accordance with 2014/34/EU (ATEX)
E8	piston rod seal E8, two-part, with plastic scraper

* Use taking into account the maximum length of 20 characters for an article number

[#] with a double end piston rod, only one side is extended

Exceptions

Round cylinders are described by the designation of the series. A design code is only used if there are deviations from the standard described.

If it is not possible to describe the version of the cylinder using the version code, a project number in the form Pxxxx should be used.

Not all options are suitable for all cylinder series