

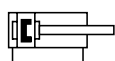
Technical details

Operating pressure	1 ... 10 bar
Temperature range	-10°C ... +80°C
Verfahrgeschwindigkeit	max. 160 mm/s
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 Gate: steel 1.7131, plasma-nitrided Seals: PU, NBR
	Cylinders in accordance with 2014/34/EU (ATEX) available.



Double acting pneumatic cylinder with magnetic piston for proximity sensors and built-in cushioning rings. Due to the combination of linear and swivel movement of the piston rod, combined insertion and clamping operations can be realised. Special angles and special stroke lengths are available on request.

Versions



double acting, built-in cushioning rings,
with magnetic piston

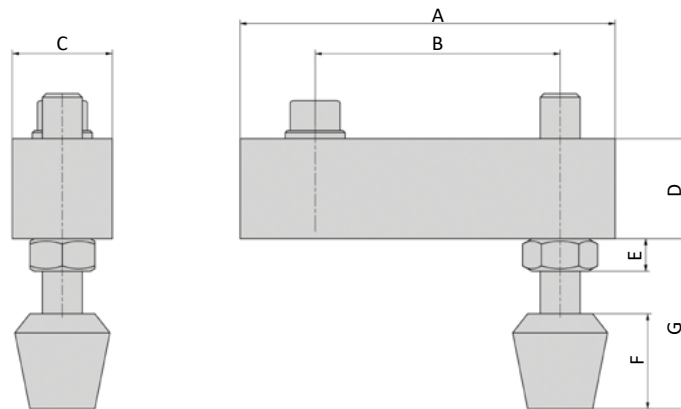
Order code

Series		Options	
DZY	standard	EX	cylinders in accordance with 2014/34/EU (ATEX)
Piston Ø		Swivel angle / swivel direction	
020	20 mm	90R	90°, clockwise (standard)
025	25 mm	90L	90°, counterclockwise
032	32 mm		
040	40 mm		
050	50 mm		
063	63 mm		
Clamping stroke (mm)			
XXX	max. 20 mm (from Ø 50 max. 50 mm)		
Standard	10, 20, 50*		
* from Ø 50 mm			

Technical data

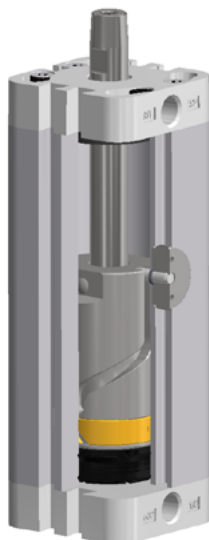
Model-no.:	DZY-020-...	DZY-025-...	DZY-032-...	DZY-040-...	DZY-050-...	DZY-063-...
Piston Ø (mm)	20	25	32	40	50	63
Force at 6 bar (N)						
Extension	170	265	434	678	1060	1682
Retraction	127	223	373	617	951	1574
Connection	M5	M5	G1/8	G1/8	G1/8	G1/8

Dimensions clamping finger



Model-no.:	A	B	C	D	E	F	G
DZY-20/25-SF	55	35.5	16	16	5	14	14 - 25
DZY-32/40-SF	75	49	20	20	6.5	19	19 - 45
DZY-50/63-SF	90	65	25	20	8	25	25 - 70

Function



Swivel direction

Indication of the swivel direction always when retracting the piston rod.



Swivelling to the right

View from above of the piston rod side with the piston rod retracted.
Clockwise swivel direction.



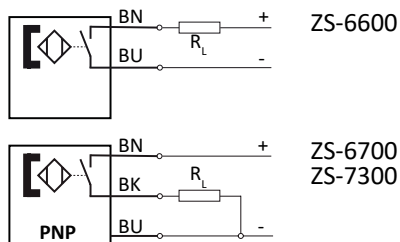
Swivelling to the left

View from above of the piston rod side with the piston rod retracted.
Counterclockwise swivel direction.

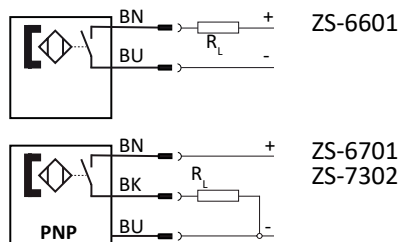
Series ZS

Proximity sensors

Proximity sensors with cable



Proximity sensors with plug

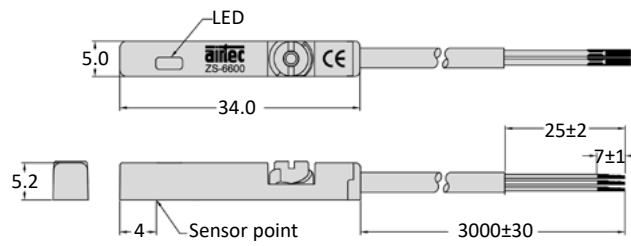
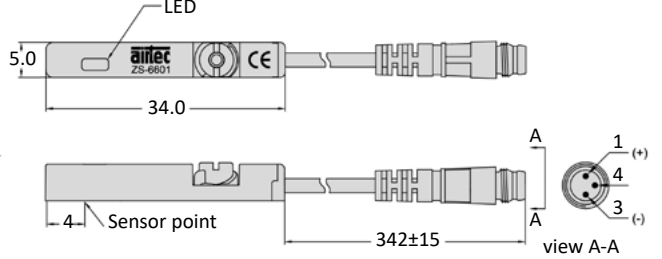
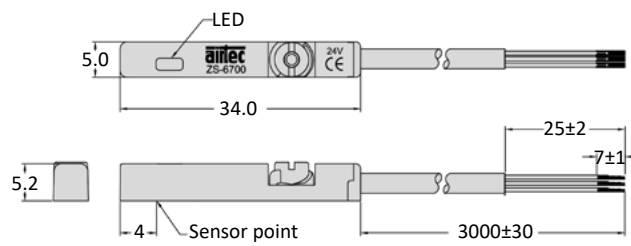
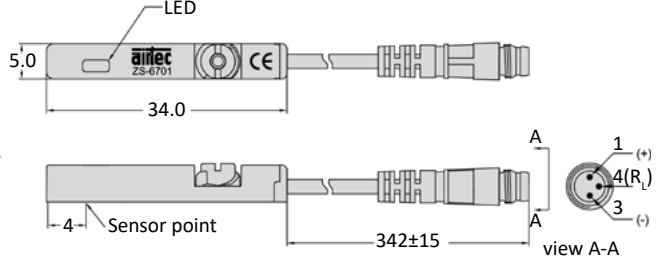


Technical data

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.

Series ZS

Proximity sensors



Connection cable M8

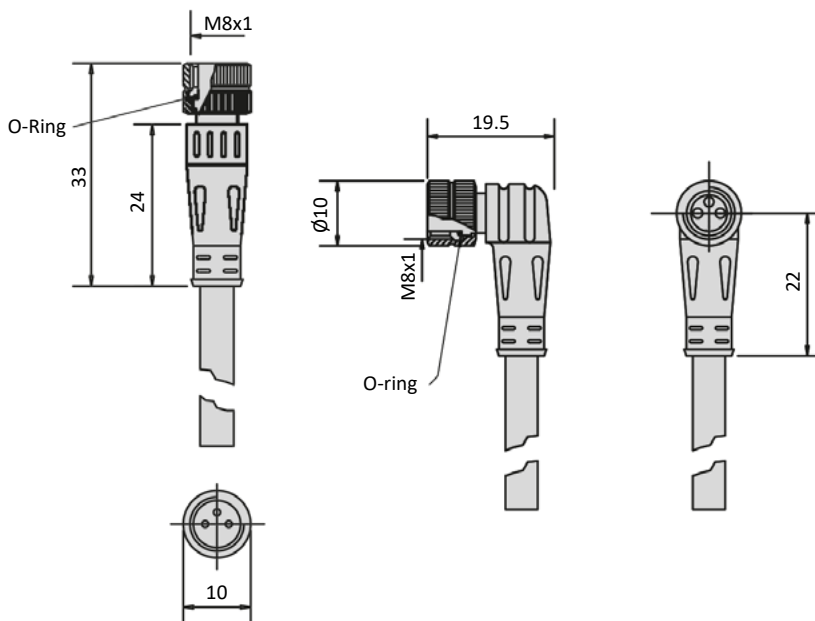
Contacts	M8 Plug socket
Protection	IP 67 according to EN 60529 in conjunction with suitable connection plug
Duty cycle	100 %
Temperature range*	-25°C...+90°C
max. voltage	60 V AC / DC
Use for	Solenoids with M8 plug, cylinder switch with M8 plug



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°	M8 Socket, elbow 90°	M8 Socket, elbow 90°	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	Piston rod versions	Seals, Air connection
0 piston rod on one side with magnetic piston adjustable cushioning	0 piston rod stainless steel male thread	0 standard seals (PUR, NBR) air connection G thread
1 piston rod on one side adjustable cushioning	1 piston rod stainless steel female thread	1 standard seals (PUR, NBR) air connection NPT thread
2 piston rod on one side with magnetic piston	2 piston rod stainless steel female thread with guide and non rotating	2 high temperature version (FKM) air connection G thread
3 piston rod on one side	3 piston rod stainless steel male thread non rotating	3 high temperature version (FKM) air connection NPT thread
4 double end piston rod with magnetic piston adjustable cushioning	4 piston rod stainless steel female thread non rotating	4 standard seals (NBR) piston rod seal FKM air connection G thread
5 double end piston rod adjustable cushioning	5 piston rod steel hard chrome plated male thread	5 standard seals (NBR) piston rod seal FKM air connection NPT thread
6 double end piston rod with magnetic piston	6 piston rod steel hard chrome plated female thread	
7 double end piston rod	7 double piston rod	
8 double end piston rod through hollow with magnetic piston	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	
	[#] with a double end piston rod, only one side is extended	
		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

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