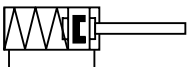
Series NYSE
Stopper cylinders, single acting

Technical details

Operating pressure	2 ... 10 bar
Temperature range	-20°C ... +80°C
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 (anodized) Piston rod: stainless steel Seals: PU, NBR

Single acting compact cylinders with magnetic piston, built-in cushioning rings and return spring.

Versions



280
single acting, built-in cushioning rings,
with magnetic piston,
normally extended

The cylinders are suitable as double acting as well.

The cylinders NYSER are non rotating.

Order code

NYSE*-*-***-***-***

Series	
NYSE	standard
NYSER	with roller, non rotating

Piston Ø	
020	20 mm
032	32 mm
050	50 mm
080	80 mm

Versions	
280	standard version, without thread, normally extended

Stroke (mm)	
XXX	standard stroke length
015	15 mm, for Ø 20 mm
020	20 mm, for Ø 32 mm
030	30 mm, for Ø 50 and 80 mm

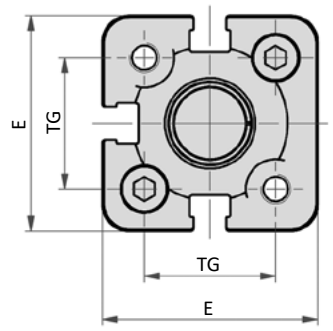
Technical data

Model-no.:		NYSE*-020-...	NYSE*-032-...	NYSE*-050-...	NYSE*-080-...
Piston Ø (mm)		20	32	50	80
Stroke (mm)		15	20	30	30
Connection		M5	G1/8	G1/8	G1/8
Spring force (N)	**min.**	28	36	49	133
	max	36	51	78	187
Weight (kg)	**NYSE**	0.20	0.40	1.04	3.20
	NYSER	0.24	0.46	1.30	4.50

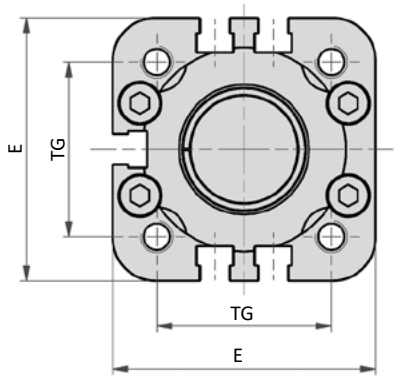
Series NYSE
Stopper cylinders, single acting

Dimensions seriesn NYSE and NYSER

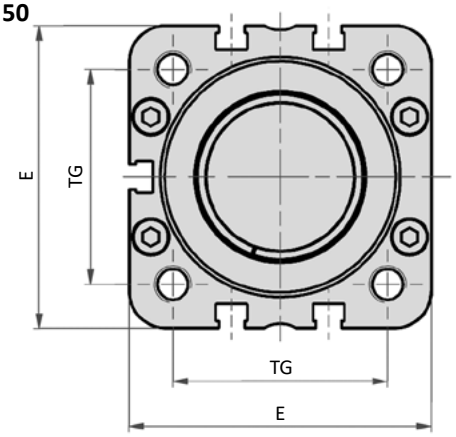
Ø 20



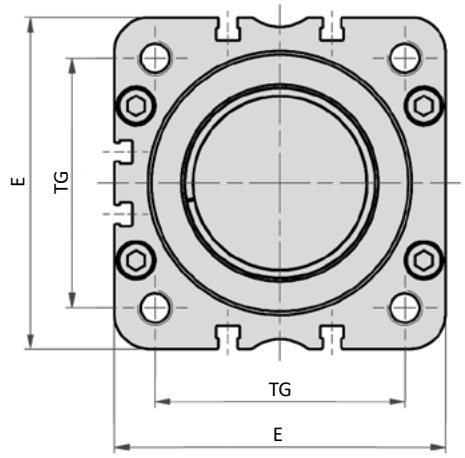
Ø 32

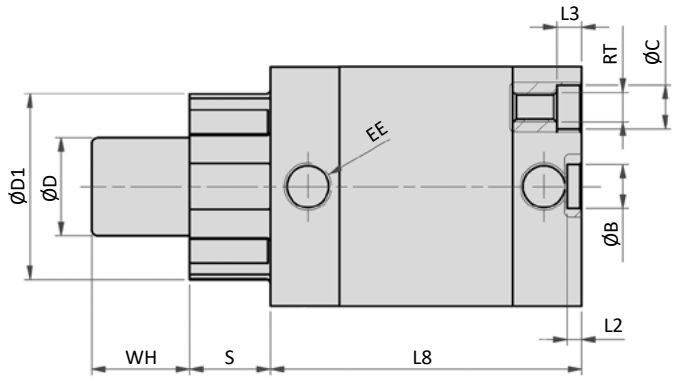


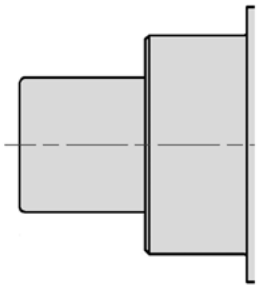
Ø 50

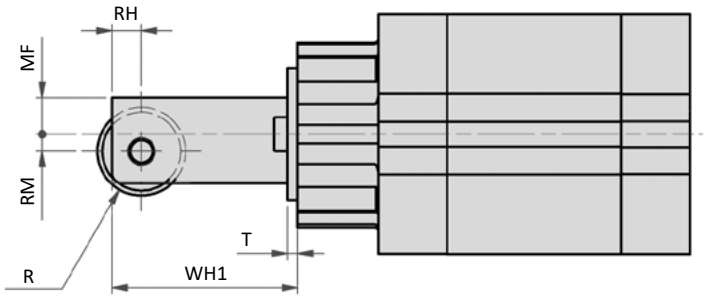


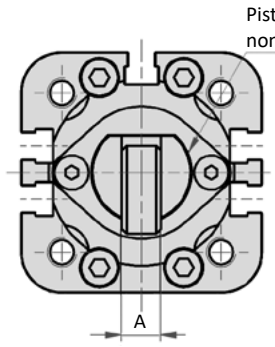
Ø 80







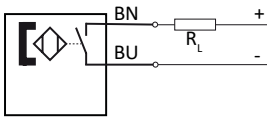




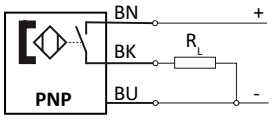
Piston Ø	A	Ø B	Ø C	Ø D	Ø D1	E	EE	L2	L3	L8	MF	R	RH	RM	RT	S	T	TG	WH	WH1
20	4	9	7.5	12	26	36	M5	3	4.5	53	4.5	5	3	2	M5	11.5	2	22	15	24
32	8	9	9	20	38	49	G1/8	3	5	64	7.5	9	6	3.5	M6	16.5	2	32.5	20	38
50	10	12	10.5	32	52	65.5	G1/8	4	5	75	12	12.5	6	7	M8	24.5	2	46.5	30	50.5
80	18	12	13.5	50	76	95.5	G1/8	4	4	126	18	18	10	11	M10	15	3	72	30	63

Series ZS
Proximity sensors

Proximity sensors with cable

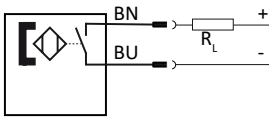


ZS-6600

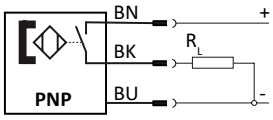


ZS-6700
ZS-7300

Proximity sensors with olug



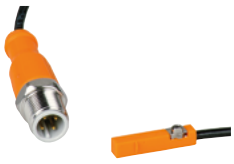
ZS-6601



ZS-6701
ZS-7302

Technical data

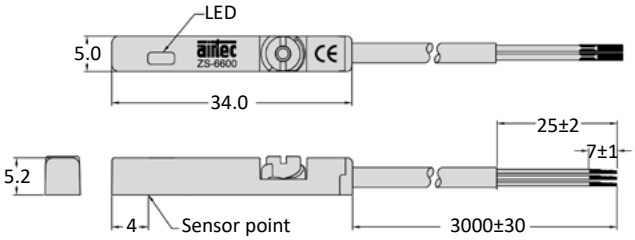
Model-no.:	ZS-6600	ZS-6601	ZS-6700	ZS-6701
Design	2-pole inductive	2-pole inductive	3-pole inductive	3-pole inductive
Contact function	NO	NO	NO	NO
Output	NO	NO	PNP	PNP
Rated operational voltage	10 ... 30 V DC	10 ... 30 V DC	5 ... 30 V DC	5 ... 30 V DC
Rated operational current I_E	≤ 50 mA	≤ 50 mA	≤ 100 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
⟨Ex⟩	II 3G Ex nA T4 II 3D Ex tD A22 IP67 T 125°C	II 3D Ex tc IIIC T125°C Dc X

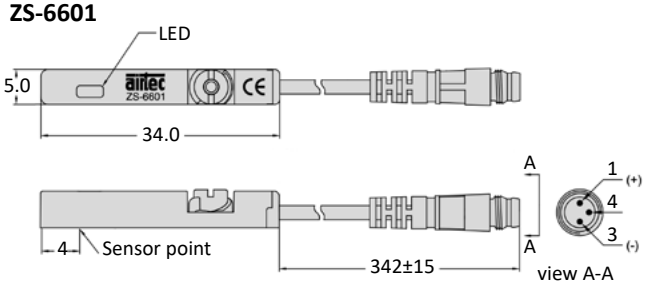
Series 88-ZS-C
Proximity sensors

Dimensions

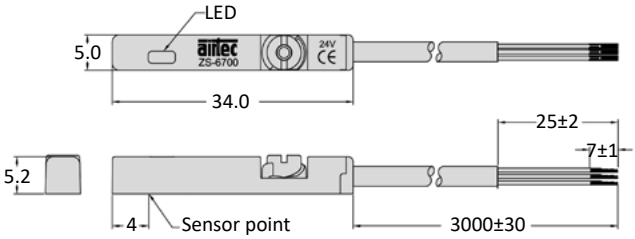
ZS-6600



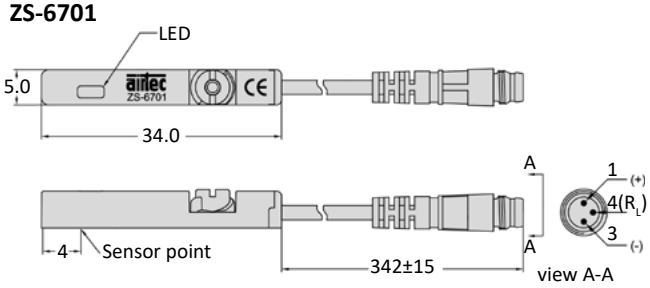
ZS-6601



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.

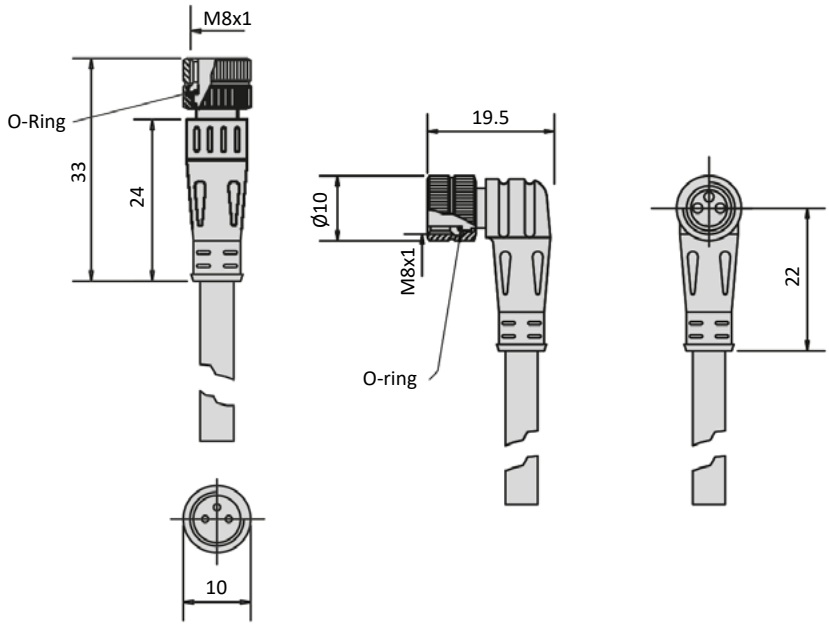
Connection cable M8

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

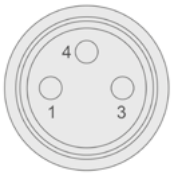
Model-no.:	KA-10-01	KA-30-01	KA-50-01	KA-100-01
Contacts	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight	M8 Socket, straight
Mounting	Coupling nut	Coupling nut	Coupling nut	Coupling nut
Cable	3-pin	3-pin	3-pin	3-pin
Length (L)	1 m	3 m	5 m	10 m

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

Version code

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	double piston rod
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

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

Exceptions

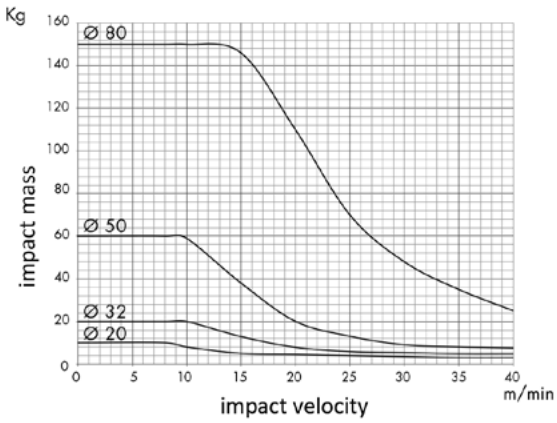
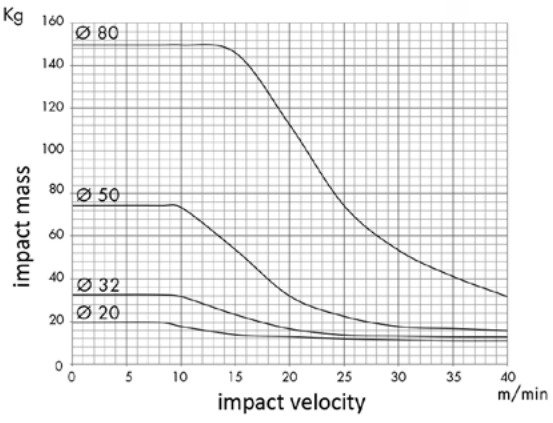
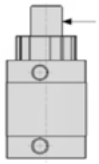
Round cylinders are described by the designation of the series.
A design code is only used if there are deviations from the standard described.

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

Applicable load, series NYSE

smooth rod



rod with roller