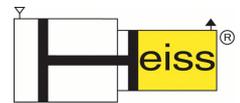


Standard Cylinder Series

SZ100, SZ160, SZ250 with pressure resistant inductive proximity switch



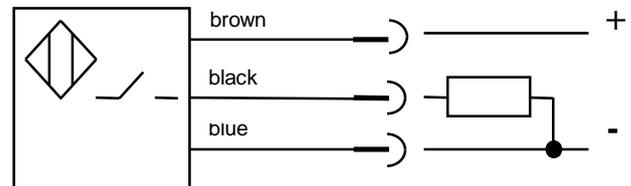
General Information on inductive proximity switches

Inductive proximity switches allow touch-free sensing of end positions of the hydraulic cylinders and are thus wear-free. They are inverse-polarity protected and are protected against inductive voltage peaks.

Specifications:

Output function	: PNP
Operating voltage U	: 10...30 V DC
Ripple max.	: ≤15 %
Current carrying capacity I _a	: 200 mA
No-load current I _r	: 10 mA
Switching frequency f _{max}	: 1000 Hz
Switching hysteresis H	: ≤15%
Nom. switching distance S _n	: 1,5 mm
Short-circuit protected	: yes
Pressure resistant	: to 500 bar
Ambient temperature	: -25...+70°C
Connection type	: angled connector with permanently attached cable (3m)
Cable type	: PVC/PUR oil resistant
Enclosure type	: IP 67 (DIN 40050)
Housing material	: 1.4104 (stainless steel)

Wiring diagram:



Attention!

Proximity switches are adjusted ex works. Should you loosen or readjust the proximity switches, do so only with the cylinder in the respective end-position. Otherwise the proximity switch may be screwed in too deep and may get damaged by the switching piston.

By default the switching point of the proximity switch is located exactly at the end-position of the cylinder. Should the stroke be limited by external factors the switching point can be moved inward up to 6mm upon customers request. With your order please request the inward positioning of the switching point as follows:

- Inward positioning of the switching point on the rod side (**V**) for example by 2mm ⇒ **SV 2**
- Inward positioning of the switching point on the bottom side (**H**) for example by 3mm ⇒ **SH 3**
- Inward positioning of the switching point on both sides (**V & H**) for example by 1mm each ⇒ **SVH 1**

The desired code designation needs to be added to the type designation when ordering because the switching points cannot be moved subsequently.

By default the Block Cylinder is equipped with proximity switches on both sides. Should only one proximity switch be required, please, add for rod side position "V" or for bottom side position "H" to the designator for proximity switches "IN".

Dimensions:

Piston-Ø	25	32	40	50	63	80	100	125	160	200
SZ 100 Dim. E:	83	85	87	90	93	97	103	130	140	150
SZ 160 Dim. E:	83	85	87	90	93	97	103	130	140	150
SZ 250 Dim. E:	85	87	90	93	97	103	108	140	150	163

Please note that all additional specifications and dimensions including configurations and functional modes can be found on the standard catalogue pages of the respective cylinder series.