P8S-G sensors





The P1D sensors can easily be installed from the side in the sensor groove, at any position along the piston stroke. The sensors are completely recessed and thus mechanically protected. Choose between electronic or reed sensors and several cable lengths and 8 mm and M12 connectors. The same standard sensors are used for all P1D versions.

Electronic sensors

The electronic sensors are "Solid State", i.e. they have no moving parts at all. They are provided with short-circuit protection and transient protection as standard. The built-in electronics make the sensors suitable for applications with high on and off switching frequency, and where very long service life is required.

Reed sensors

The sensors are based on proven reed switches, which offer reliable function in many applications. Simple installation, a protected position on the cylinder and clear LED indication are important advantages of this range of sensors.

Technical data

GMR (Giant Magnetic Resistance) Design magneto-resistive function Installation From side, down into the sensor groove, so-called drop-in PNP, normally open (also available in Outputs NPN design, normally closed, on request) Voltage range 10-30 VDC 10-18 V DC, ATEX sensor max 10% Ripple Voltage drop max 2,5 V Load current max 100 mA max 10 mA Internal consumption Actuating distance min 9 mm Hysteresis max 1,5 mm max 0,2 mm Repeatability accuracy On/off switching frequency max 5 kHz On switching time max 2 ms Off switching time max 2 ms Encapsulation IP 67 (EN 60529) -25 °C to +75 °C Temperature range -20 °C to +45 °C, ATEX sensor Indication LED, yellow Material housing PA 12 Material screw Stainless steel Cable PVC or PUR 3x0.25 mm²

see order code respectively

Technical data

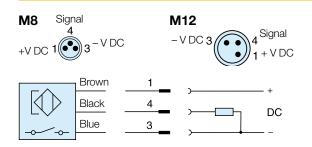
Design Reed element From side, down into the sensor Mounting groove, so-called drop-in Output Normally open, or normally closed Voltage range 10-30 V AC/DC or 10-120 V AC/DC 24-230 V AC/DC max 500 mA for 10-30 V or Load current max 100 mA for 10-120 V max 30 mA for 24-230 V Breaking power (resistive) max 6 W/VA Actuating distance min 9 mm Hysteresis max 1,5 mm Repeatability accuracy 0,2 mm On/off switching frequency max 400 Hz On switching time max 1.5 ms Off switching time max 0,5 ms Encapsulation IP 67 (EN 60529) Temperature range -25 °C to +75 °C Indication LED, yellow Material housing PA12 Material screw Stainless steel Cable PVC or PUR 3x0.14 mm² see order code respectively



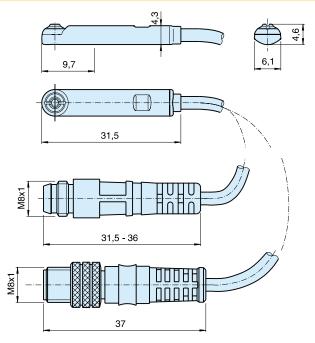
Sensors

Parker Pneumatic

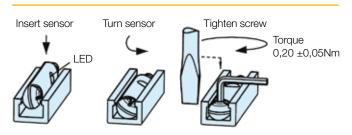
Electronic sensors



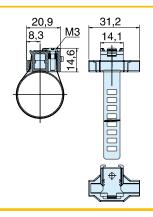
Sensor Dimensions



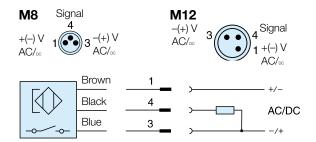
Sensor Installation - P1D-S / B / C / X P1Q / P1P



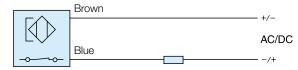
Sensor mounting for P1A - P8S-TMC01



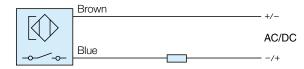
Reed sensors



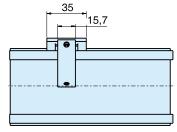
P8S-GCFPX

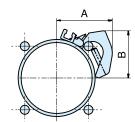


P8S-GRFLX / P8S-GRFLX2



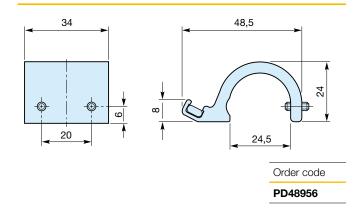
Sensor mounting - P1D-T 32 - 125mm P8S-TMA0X





Cyl. bore	Α	В
mm	mm	mm
32	35	26
40	39	30
50	44	30
63	50	42
80	54	52
100	62	60
125	74	69

Sensor mounting - P1D-T 160 - 320mm PD48956





Parker Pneumatic

Ordering data

Output/function	Cable/connector	Weight kg	Order code
Electronic sensors , 10-30 V DC			
PNP type, normally open	0,27 m PUR-cable and 8 mm snap-in male connector	0,007	P8S-GPSHX
PNP type, normally open	0,27 m PUR-cable and M12 screw male connector	0,015	P8S-GPMHX
PNP type, normally open	3 m PVC-cable without connector	0,030	P8S-GPFLX
PNP type, normally open	10 m PVC-cable without connector	0,110	P8S-GPFTX
Reed sensors , 10-30 V AC/DC			
Normally open	0,27 m PUR-cable and 8 mm snap-in male connector	0,007	P8S-GSSHX
Normally open	0,27 m PUR-cable and M12 screw male connector	0,015	P8S-GSMHX
Normally open	3 m PVC-cable without connector	0,030	P8S-GSFLX
Normally open	10 m PVC-cable without connector	0,110	P8S-GSFTX
Normally closed	5m PVC-cable without connector (1)	0,050	P8S-GCFPX
Reed sensors, 10-120 V AC/DC			
Normally open	3 m PVC-cable without connector	0,030	P8S-GRFLX
Reed sensorer, 24-230 V AC/DC			
Normally open	3 m PVC-cable without connector	0,030	P8S-GRFLX2

¹⁾ Without LED

Sensor mounting

Description	Weight kg	Order code
Sensor mounting for cylinder P1A cylinder bore Ø10 to Ø25 mm	0,07	P8S-TMC01
Double jointed adapter for cylinder P1D-T cylinder bore Ø32 to Ø125 mm	0,07	P8S-TMA0X
Sensor mounting for P1D-T 160 - 320mm	0,040	PD48956

Connecting cables with one connector

The cables have an integral snap-in female connector.



Sensors

Type of cable	Cable/connector	Weight kg	Order code
Cables for sensors, complete with one female connector			
Cable, Flex PVC	3 m, 8 mm Snap-in connector	0,07	9126344341
Cable, Flex PVC	10 m, 8 mm Snap-in connector	0,21	9126344342
Cable, Polyurethane	3 m, 8 mm Snap-in connector	0,01	9126344345
Cable, Polyurethane	10 m, 8 mm Snap-in connector	0,20	9126344346
Cable, Polyurethane	5 m, M12 screw connector	0,07	9126344348
Cable, Polyurethane	10 m, M12 screw connector	0,20	9126344349

Male connectors for connecting cables

Cable connectors for producing your own connecting cables. The connectors can be quickly attached to the cable without special tools. Only the outer sheath of the cable is removed. The connectors are available for M8 and M12 screw connectors and meet protection class IP 65.



Connector	Weight kg	Order code
M8 screw connector	0,017	P8CS0803J
M12 screw connector	0,022	P8CS1204J



For ATEX specific products contact Sales Office

