



PNEUMAX S.p.A

Components for Pneumatic Automation Via Cascina Barbellina,10
- 24050 LURANO (BG) ITALY - Tel. 035/4192777 - Fax 035/4192740-4192741

Pressure switch DS.10 series

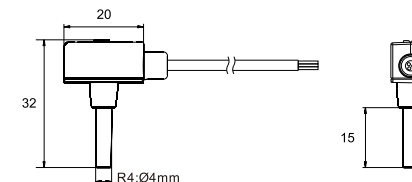
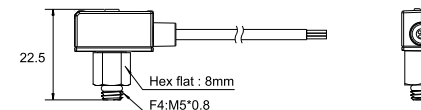
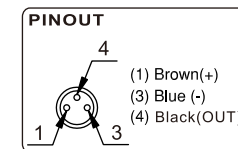
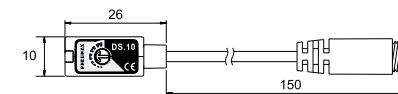
For your safety, please read the following before using.

- Do not use corrosive or flammable gas or liquid with this product.
- Please use within the setting pressure range. Do not apply pressure beyond recommended maximum pressure, permanent damage to the pressure switch may occur.
- Do not drop, hit or allow excessive shock. Even if switch body appears undamaged, internal components may be broken and can cause malfunction.
- Turn power off before connecting wiring. Wrong wiring or short circuit will damage and / or cause malfunction.
- Do not use in environment containing steam or oil vapor.
- This product is not explosion-proof rated. Do not use in atmosphere containing flammable or explosive gases.
- Wiring for pressure switch should avoid power source line and high voltage line. If use in the same circuit, noise may cause malfunction.
- ESD protection $\pm 4\text{KV}$.

SPECIFICATIONS

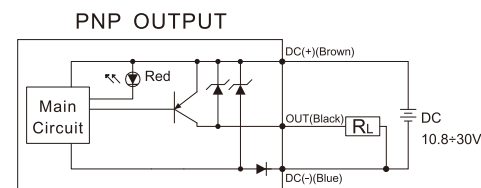
	DS.10.V.B. (Vacuum)	DS.10.P.B. (Positive)
Setting pressure range	-101.3 + 0 kPa	0 + 0.6 MPa
Withstand pressure	0.6 MPa	1.5 MPa
Fluid	Filtered air, Non-corrosive/Non-flammable gas	
Power supply voltage	10.8 to 30V DC (include ripple voltage)	
Current consumption	$\leq 10\text{mA}$	
Switch output	PNP : open collector	
	Max . load current : 80mA	
	Max . supply voltage : 30VDC	
	Voltage drop $\leq 0.8\text{V}$	
Repeatability(Switch output)	$\pm 1\%$ F.S.	
Hysteresis	$\leq 3\%$ F.S.	
Response time	Approx.1ms	
Output short circuit protection	Yes	
Indicator	Red LED turns ON	
Environment	Protection degree	IP 40
	Ambient temp. range	Operation: 0 + 60°C, Storage: -20 + 70°C (No condensation or freezing)
	Ambient humidity range	Operation/Storage: 35+ 85% RH (No condensation)
Environment	Withstand voltage	1000VAC in 1-min (between case and lead wire)
	Insulation resistance	50M Ω (at 500V DC, between case and lead wire)
	Vibration	Total amplitude 1.5mm, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z
	Shock	980m/s ² (100G), 3 times each in direction of X, Y and Z
Temperature characteristic	$\pm 3\%$ F.S. of detected pressure (25°C) at temp. range of 0+50°C	
Port size	R4: $\varnothing 4\text{mm}$ Tube; F4 : M5	
Lead wire	Oil-resistance cable, 3 wire (0.18mm ²), $\varnothing 2.6\text{mm}$	
Weight	Approx. 50g (with 3-meter lead wire) . Approx 25g(with M8 3Pin male connector)	

DIMENSIONS

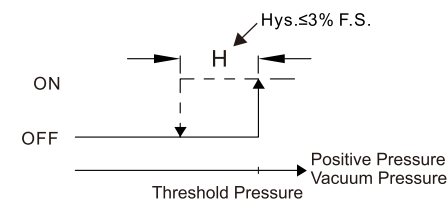


Unit:mm

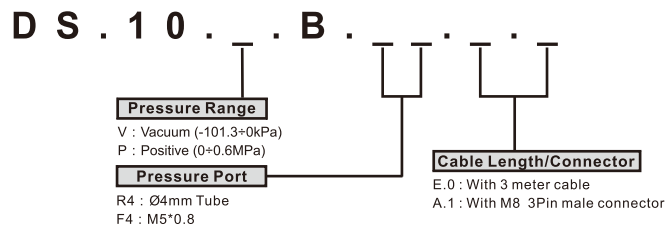
SIMPLIFIED DIAGRAM



OUTPUT



ORDERING CODE



HOW TO SET PRESSURE THRESHOLD

- Use the pressure setting trimmer to set "ON" pressure. Rotate clockwise to increase pressure setpoint .
- Rotate counter-clockwise to decrease pressure setpoint .
- Use appropriate size screwdriver for the setting trimmers. Gently turn the screwdriver to make adjustments. To prevent damage to the pressure setting trimmer, DO NOT force the trimmer when it comes to a stop.

Positive & Vacuum

