

Diaphragm Seal Piston Press. Switches

P1X

Mechanical single switch

Repeatability ± 2.0 % at constant temperature

Features

Mechanical pressure switches,
Switching point can be adjusted with corresponding
reference unit during operation

Adjustment ranges

0.1 ... 107 bar

Applications

Hydraulic and pneumatic power units,
Autoclaves,
Shipbuilding applications



Technical Data

Wetted parts:	
Diaphragm:	NBR
Process connection:	Optional: FKM, PTFE Aluminium, anodized Optional: stainless steel 1.4401
Repeatability:	± 2 % at constant temperature
Switching rate:	max. 20/min
Temperature range:	-30 °C... +70 °C
Protection class:	IP65
Housing:	Explosion proof housing acc. to CSA and cULus
Housing:	Aluminium, anodized
Cap:	Aluminium, anodized
Process connection:	1/4" NPT female thread Optional: 1/2" NPT female thread

Electrical connection:	Screw terminals and cable gland 1/2" NPT female thread
Electrical ratings and hysteresis:	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.
Weight:	P1X-...: approx. 1.3 kg
Set point adjustment:	Turn the adjustment screw clockwise to increase the set point
Intrinsically safe:	The switches are also applicable for inherent safety applications. In this case we recommend gold contacts. Add "Exi" in case of ordering. The following max. values are valid when using those switches: $U_{max} =$ 28 V $I_{max} = 50$ mA
Approval:	CSA, UL File No. E37043, NACE

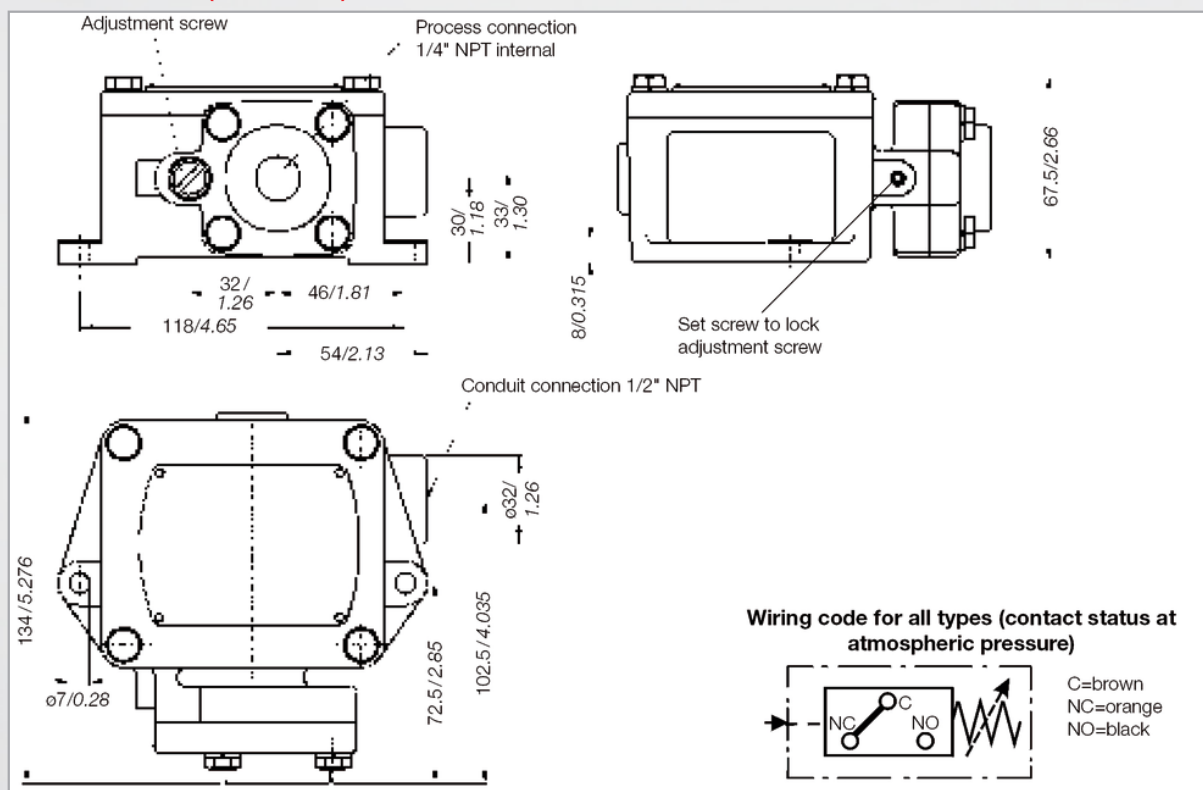
Pressure Ranges

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar] (short term)	Max. hysteresis of switch types in bar (end of range)		
	Increasing press.	Decreasing press.			B	H, GH [bar]	K [bar]
30	0.1... 2.1	0.03... 2.0	91	137	0.14	0.06	0.17
85	0.4... 6.0	0.2... 5.8	91	137	0.50	0.17	0.58
340	0.8... 23.4	0.4... 23.0	91	137	1.50	0.41	1.83
600	2.9... 41.0	1.7... 40.0	91	137	2.00	1.17	2.42
1600	32.0... 107.0	27.0... 101.0	110	165	6.8	4.8	8.6

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Dimensions (mm / inch)



Electrical Ratings

Micro switch	Special features	Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Comments
H	Micro switch with silver contacts	125 250 480	10 10 3	10 10 3	6 to 28	0.50	0.5	Small hysteresis; High AC / low DC loads
GH	Micro switch with gold-plated contacts for low voltage and low current (e. g. "Exi")	125	1	1	24	0.10	1.0	Small hysteresis
K, B	Micro switch with silver contacts K: with sealed plunger and/ or stainless steel blade	125 250 480	10	10	12 24 250	10.00 5.00 0.03	10.0 6.0 0.2	Medium hysteresis; High AC and DC loads

Material / Options / Diaphragm

Material	Options	Diaphragm
() Aluminium	(P2)1/2" NPT female SS	(-) NBR
(SS) Stainless steel	(EXI) for intrinsically safe applications	(V) FKM
		(T) PTFE

Order Code

Example for order number

Type		Micro switch		Pressure range code		Material		Options		Diaphragm
P1X	-	GH		85	-	SS	-	EXI	-	V

Your order number

Type	Micro switch	Pressure range code	Material	Options	Diaphragm
	-		-		-