Diaphragm Seal Piston Press. Switches

Type E1S-...

Mechanical single switch Repeatability ±2.0% at constant temperature

Features

Diaphragm seal piston pressure switch, scale for setpoint reference

Adjustment ranges

-0.28...-0.9 bar, vacuum 0.1...34 bar, pressure

Applications

Machine and tool engineering, Dosing machines, Plant engineering, Lubricant monitoring



Technical Data

Wetted parts: Diaphragm: Process connection:	NBR Optional: FKM, PTFE, EPDM, CR anodized aluminium
	Optional: brass, polysulfone, aluminium nickel-plated
Repeatability:	±1% at constant temperature
Switching rate:	max. 20/min
Temperature range:	-30 °C+70 °C
Protection class:	IP00
Housing:	Without housing for installation in control panels
Process connection:	
Pressure switches:	1/4" NPT female Optional: 1/8" NPT female + 1/2" NPT male (P6) G1/4 female (P7)
Vacuum switches (VAC):	1/4" NPT female (P4) 1/8" NPT female +1/2" NPT male (P6)

Electrical connection:	Screw terminals				
Electrical rating and hysteresis:	Many micro switch versions with different switching powers and hysteresis are applicable and make it possible to make customized changes.				
Weight:	E1S: approx. 0.35 kg				
Set point adjustment: Pressure switches: Vacuum switches:	Turn the adjustment screw clockwise to increase the set point. Switching point lowers by turning the adjustment screw clockwise.				
Intrinsically safe:	The switches are designed for intrinsically safe applications. Please add "Exi" to your ordering details when placing an order. To comply with the intrinsically safe approval following max. ratings must not be exceeded: Umax=28 V Imax=50 mA				
Approval:					

Pressure ranges

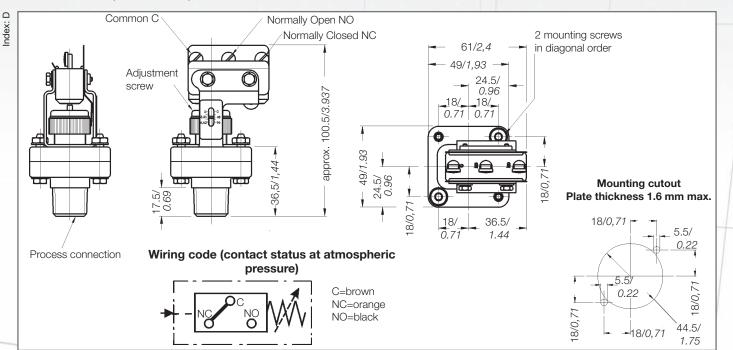
* Designed for 70 bar proof pressure, for practical production reasons, however, the standard proofing pressure is 30 bar.

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar] *	Max. hysteresis of switch types in bar (end of range)					
	Increasing press.	Decreasing press.		(short term)	H, GH [bar]	M, GM [bar]				
Pressure switches	Pressure switches									
15	0.10 1.0	0.04 1.0	46	30/70	0.08	0.080				
90	0.80 6.0	0.20 5.0	46	30/70	0.55	0.680				
250	2.10 17.0	0.70 16.0	46	30/70	1.37	1.440				
500	3.70 34.0	1.72 32.0	46	30/70	1.93	2.750				
Vacuum switches										
VAC	-0.280.9	-0.200.82	2.0	-1.0	0.08	0.077				

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Dimensions (in mm / inch)



Electrical ratings

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Micro switch	Special features	Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Comments
н	Micro switch with silver contacts	125 250	10 10	10 10	6 to 24	0.50	0.5	Small hysteresis; High AC / Iow DC loads
Μ	Micro switch with silver contacts	125 250	10 10	10 10	12 24 250	5.00 1.00 0.25	15.0 2.0 0.4	Medium hysteresis; High AC and DC loads
GH GM	Micro switch with gold-plated contacts for low voltage and/or low current	125 30	1 0.1	1 0.1	24 30	1.00 0.10	1.0 0.1	Small hysteresis Medium hysteresis

Process connection / diaphragm / option

	Process	Diaphragm		
	Pressure switches	Vacuum switches	VAC	not VAC
(P4)	1/4" NPT female	(P4) 1/4" NPT female	() NBR	() NBR
(P6)	1/8" NPT female + 1/2" NPT male	(P6) 1/8" NPT female + 1/2" NPT male	(V) FKM	(V) FKM
(P6-PLS) material PLS, up to 17 bar only				(T) PTFE
(P7)	G1/4 female			(N) CR
				(E) EPDM

Ordering

Туре

E1S

Туре

Specifications are subject to changes without notice Example for order number

