E1S

Diaphragm Seal Piston Press. Switches

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

strional: FKM, PTFE, EPDM, CR addized aluminium ational: brass, polysulfone, uminium nickel-plated % at constant temperature
tional: brass, polysulfone, uminium nickel-plated % at constant temperature ux. 20/min
x. 20/min
) °C +70 °C
00
thout housing for installation in ntrol panels
" NPT female htional: 1/8" NPT female + 1/2" NPT male (P6) G1/4 female (P7) " NPT female (P4) " NPT female +1/2" NPT male
1

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:	Turn the adjustment screw clockwise to increase the set point.		
Vacuum switches:	Switching point lowers by turning the adjustment screw clockwise.		
Intrinsically safe:	on request		
Approval:			

Pressure Ranges

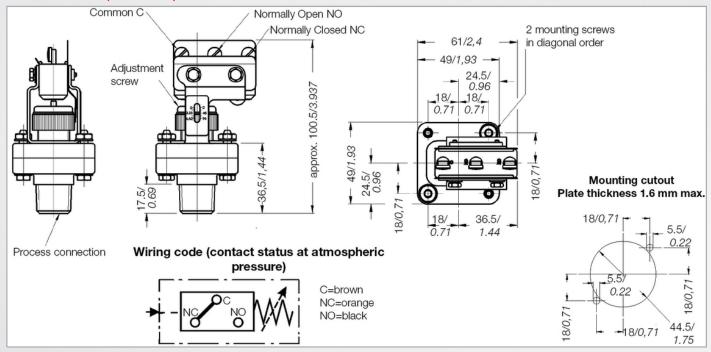
 * Designed for 70 bar proof pressure, for practical production reasons, however, the standard proofing pressure is 30 bar.

Pressure range code	Adjustmen	t range [bar]	Max. operating	Proof pressure [bar] *	Max. hysteresis of switch types in bar (end of range)			
	Increasing press.	Decreasing press.	pressure [bar]	(short term)	H, GH [bar]	M, [bar]		
Pressure switches								
15	0.10 1.0	0.04 1.0	46	30 / 70	80.0	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	80.0	0.077		

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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
н	Micro switch with silver contacts	125 250	10 10	10 10	6 to 24	0.50	0.50	Small hysteresis; High AC / Iow DC loads
М	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	Micro switch with gold- plated contacts for low voltage and/or low current	125	1	1	24	1.00	1.00	Small hysteresis

Process Connection / Diaphragm

Proce	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 *

^{*} on request

Order Code

Example for order number

Туре	Micro switch	Pressure range code	Process connection	Diaphragm		
E1S	- H	250 -	- P6	- V		
Your order number						
Type	Micro switch	Pressure range code	Process connection	Diaphragm		