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 and 0.1 ... 34 bar

Applications

Machine and tool engineering, Dosing machines, Plant engineering, Sprinkler control



Technical Data

Wetted parts: Diaphragm: Process connection:	NBR Optional: FKM, PTFE, EPDM, CR anodized aluminium Optional: brass, polysulfone,
Repeatability:	aluminium nickel-plated ±1 % at constant temperature
Switching rate:	max. 20/min
Temperature range:	-30 °C +70 °C
Protection class:	IP65
Housing:	Aluminium, anodized Top cover: Poycarbonate (PC)
Process connection: Pressure switches: Vacuum switches (VAC):	1/4" NPT female (P4) Optional: 1/8" NPT female 1/2" NPT male (P6) G1/4 female (P7) 1/4" NPT female (P4) 1/8" NPT female +1/2" NPT male (P6)
Electrical connection:	Screw terminals and cable gland M20x1.5 mm

Electrical ratings and hysteresis:	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.				
Weight:	E1H: approx. 0.7 kg				
Set point adjustment:					
Pressure switches:	Turn the adjustment screw clockwise to increase the set				
Vacuum switches:	point. Turn the adjustment screw clockwise to decrease the set point.				
Intrinsically safe:	The switches are designed for intrinsically safe applications. In this case we recommend gold contacts. 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.

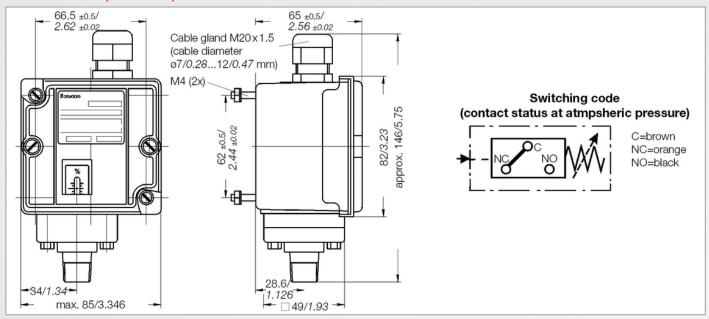
Pressure range code	Adjustmen	t range [bar]	Max. operating pressure [bar]	Proof pressure [bar] *	Max. hysteresis of switch types in bar (end of range)		
	Increasing press. Decreasing press.			(short term)	H, GH [bar]	M, [bar]	
Pressure switches							
15	0.10 1.0	0.04 1.0	46	30 / 70	0.08	0.080	
90	0.80 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	

Pressure

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E1H

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	0.5	Small hysteresis; High AC / low 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 (e.g. "Exi")	125	1	1	24	1.00	1.00	Small hysteresis

Process Connection / Diaphragm

Pro	Diapl	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

Options

ST1	Plug, 3-pin + E, DIN EN 175 301-801-A (prev. DIN 43650)
EXI	for intrinsically safe application
RD	Manual reset with G-Micro switch

Order Code

Example for order number

Туре		Micro switch	Pressure range code		Process connection		Diaphragm		Option	
E1H	-	GH	250	-	P6	-	V	-	EXI	
Your order number	er									

Your order number

Туре	Micro switch	Pressure range code	Process connection	Diaphragm	Option
	-		-	-	-