## **Diaphragm Seal Piston Press. Switches**

## Type E1H

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, aluminium nickel-plated
Repeatability:	±1 % at constant temperature
Switching rate:	max. 20/min
Temperature range:	-30 °C +70 °C
Protection class:	IP65
Housing:	Without housing for installation in control panels
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. 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**

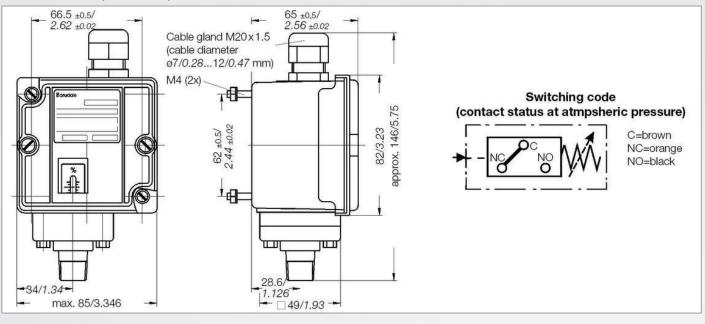
\* Designed for 70 bar proof pressure, for practical production reasons, however, the standard proofing pressure is 30 bar.

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.	asing 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	
acuum switches		·					
VAC	-0.280.9	-0.200.82	2.0	-1.0	0.08	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	0.5	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**

Pr	Diap	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)
ST2	Amphenol plug 4-pin + E
EXI	for intrinsically safe application
RD	Manual reset with G-Micro switch

### Order Code

#### Example for order number

Type E1H -	Micro switch	Pressure range code 250	_	Process connection P6	_	Diaphragm V	_	Option ST2
Your order number Type	Micro switch	Pressure range code		Process		Diaphragm		Option
2			- to tech	nical changes.	-		-	Barksdale