

# **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:	NBR Optional: FKM, PTFE, EPDM, CR anodized aluminium
Process connection:	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: Vacuum switches:	Turn the adjustment screw clockwise to increase the set 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**

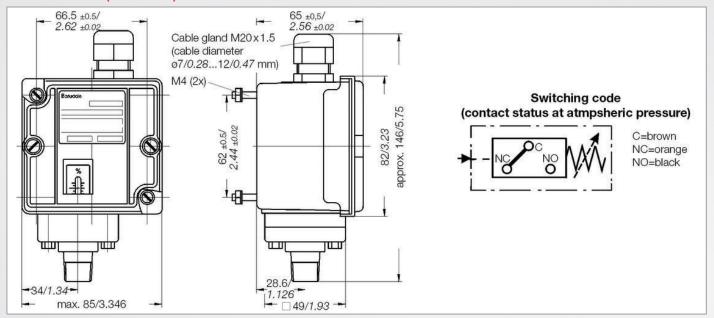
\* Designed for 70 bar proof pressure, for practical production reasons, however, the standard proofing pressure is 30 bar.

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.	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			

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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 / 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	125	1	1	24	1.00	1.00	Small hysteresis

### **Process Connection / Diaphragm**

Pro	Diap	Diaphragm		
Pressure 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*	

<sup>\*</sup> 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		Micro switch Pressure range code			Process connection		Diaphragm		Option
E1H	-	Н	250	-	P6	-	V	-	ST2

### Your order number

Туре	Micro switch	Pressure range code	Process connection	Diaphragm	Option

