# **Diaphragm Seal Piston Press. Switches**

P<sub>1</sub>H

Mechanical single switch Repeatability ±2.0 % at constant temperature

#### **Features**

Mechanical pressure switches, external setpoint adjustment

### **Adjustment ranges**

0.1 ... 107 bar

### **Applications**

Hydraulic and pneumatic power units, Shipbuilding applications



### **Technical Data**

Wetted parts:	
Diaphragm:	NBR Optional: FKM, PTFE
Process connection:	Aluminium, anodized Optional: stainless steel 1.4401
Repeatability:	±2 % at constant temperature
Switching rate:	max. 20/min
Temperature range:	-30 °C +70 °C
Protection class:	IP65
Material Housing: Cap:	Aluminium, anodized Steel, galvanized
Process connection:	1/4" NPT female thread Optional: 1/2" NPT female thread (P2)

Electrical connection:	Screw terminals and cable gland 1/2" NPT, cable diameter ø7 12 mm
Electrical ratings and hysteresis:	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.
Weight:	P1H: approx. 1.2 kg
Set point adjustment:	Turn the adjustment screw clockwise to increase 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:	NACE

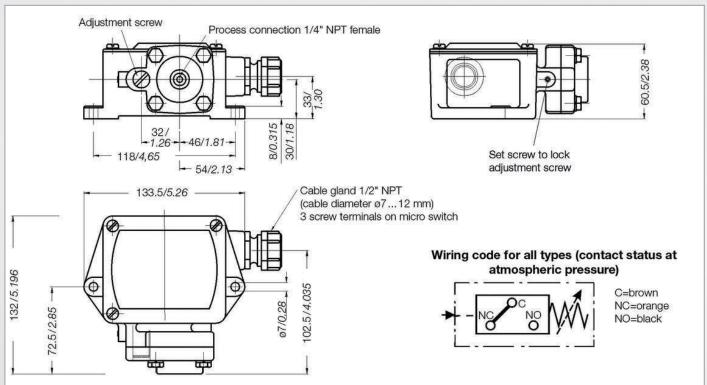
### **Pressure Ranges**

Pressure range code					Proof pressure [bar]	Max. hysteresis of switch types in bar (end of range)			
	Increasing press.	Decreasing press.		(short term)	В	H, GH [bar]	K [bar]		
30	0.1 2.1	0.03 2.0	91	137	0.14	0.06	0.17		
85	0.4 6.0	0.2 5.8	91	137	0.50	0.17	0.58		
340	0.8 23.4	0.4 23.0	91	137	1.50	0.41	1.83		
600	2.9 41.0	1.7 40.0	91	137	2.00	1.17	2.42		
1600	32.0 107.0	27.0 101.0	110	165	7.00	4.80	8.60		

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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	H Micro switch with silver contacts		10 10 3	10 10 3	6 to 28	0.50	0.5	Small hysteresis; High AC / low DC loads
GH	Micro switch with gold contacts for low voltage and low current	125	1	1	24	0.10	1.00	Small hysteresis
K, B	Micro switch with silver contacts K: with sealed plunger and stainless steel blade	125 250 480	10	10	12 24 250	10.00 5.00 0.03	10.0 6.0 0.2	Medium hysteresis; High AC and DC loads

### **Material / Options / Diaphragm**

Material	Options	Diaphragm
() Aluminium	(P2) 1/2" NPT female SS	() NBR
(SS) Stainless steel		(V) FKM
		(T) PTFE

### **Order Code**

Example for order number

Type P1H	-	Micro switch	Pressure range code 85	] -	Material SS	-	Options P2	-	Diaphragm V	
Your order nu	ımber									

Your order number	er				
Туре	Micro switch	Pressure range code	Material	Options	Diaphragm
	-		-	-	-