# **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)

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

# **Pressure Ranges**

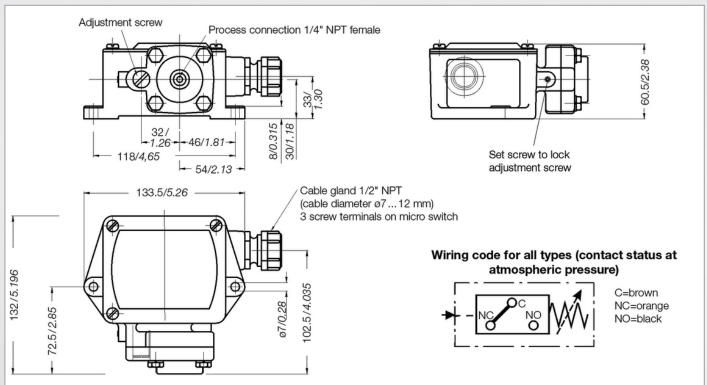
Pressure range code	e Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar]	Max. hysteresis of switch types in bar (end of range)			
	Increasing press.	Decreasing press.		(short term)	В	H, GH [bar]	K [bar]	
30	0.1 2.1	0.03 2.0	91	137	0.14	0.06	0.17	
85	0.4 6.0	0.2 5.8	91	137	0.50	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	

# Praggura

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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	125 250 480	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 (e. g. "Exi")	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	(EXI) for intrinsically safe application	(V) FKM			
		(T) PTFE			

switch

### **Order Code**

Example for order number

Type P1H -	Micro switch GH	switch code		Material - SS		Options EXI	-	Diaphragm V
Your order number	Mioro	Prossure range						

code

Material

**Options** 

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Type

Diaphragm