

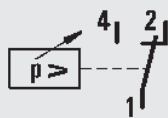
Pressure switch PS 1

Compact size pressure switch for high and low pressure, such as vacuum applications



Control pressure switch PS 1-...

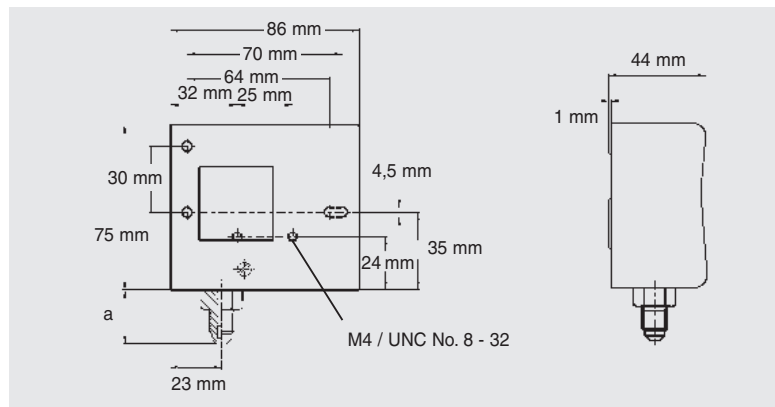
Circuit diagram



Change-over contact

Description

- Adjustable pressure range, narrow adjustable differentials
- Pressure and differential range pointer in bar and psi, lockable by lead
- Seal, test lever for maintenance work, sturdy terminals.



Types Standard

Order reference (bar)	Upper switch pt. adjustable (bar)	Pressure diff. adjustable (bar)	Lowest setpoint (bar)	Factory setting (bar)	Leakage test pressure	Pressure connection	Part No.
PS1-A1R	- 0,75 ... 3	0,25 ... 2	- 0,9	0,5 / 1	13	G 1/4" male	1040007
PS1-A2R	- 0,8 ... 1,5	0,2 ... 1	- 1,0	0,5 / 1	13	G 1/4" male	1040002
PS1-A3R	- 0,5 ... 7	0,5 ... 5	- 0,9	3,5 / 4,5	13	G 1/4" male	1040008
PS1-A4R	1 ... 20	1 ... 10	0,3	8 / 10	23	G 1/4" male	1040004
PS1-A5R	6 ... 31	2 ... 15	3,0	16 / 20	36	G 1/4" male	1040009
PS1-A6R	4 ... 12	0,5 ... 7	0,1	6 / 7	16	G 1/4" male	1040011

Technical data	
General	
Type of contact: PS1	1x Change-over contact (SPDT)
Contact material: Standard	CuAg ³
Special option	Gold fl. contacts
AC 1	24 A / 230 V AC
AC 15	10 A / 230 V AC
DC 13	0,1 A / 230 V AC
	3 A / 24 V AC
	6 A / 12 V AC
Motor rating (FLA)	24 A / 230 V AC
Locked rotor (LRA) / startup (AC3)	144 A / 230 V AC
Approvals	
Low voltage directive (CE-Label) 73/23/EWG 93/68/EWG; EN 60947-1, EN 60947-5-1	Standardmodels
UL / CSA	Standardmodels
Environmental conditions	
Ambient temperature storage, transportation and operation	-50 ... + 70 °C
Temperature at pipe tap	-50 ... + 70 °C
Dust and water protection EN 60529 / IEC 529	IP44 Switch mounted flush against wal
Vibration resistance	4 g@10 ... 1000 Hz
Materials and compatibility	
Housing material: Cover	Polycarbonate (PC)
frame	Steel
Materials with medium contact: Pressure connection (A/R) / bellows	Brass / bronze

Pressure switch PS 1

Compact size pressure switch for high and low pressure, such as vacuum applications

Media compatibility guide

Medium name	Chemical Formula	Bronze
Acetone	CH ₃ COCH ₃	X
Acetylene	HC = CH	
Air	-	X
Benzene	Sulphur-free	X
Butane	C ₄ H ₁₀	X
Butyl acetate	CH ₃ COOC ₄ H ₉	X
Butyl alcohol	CH ₃ -CH ₂ -CH ₂ -CH ₂ -OH	X
Carbon dioxide	CO ₂	X
Carbonic acid	H ₂ CO ₃	X
Chlorine	Cl ₂	
Crude oil	-	X
Diesel oil	See fuels	X
Ethyl acetate	CH ₃ COOC ₂ H ₅	X
Fuels	Diesel oil,	X
	Leaded petrol	X
	Benzene	X
Glycerine	CH ₂ OH-CHOH-CH ₂ OH	X
Glycol	CH ₂ OH-CH ₂ OH	X
Heating fuel oil	See also oils	X
Hydrogen	H ₂	X
Inert gases	-	X
Methanol	CH ₃ OH	X
Methyl chloride	CH ₃ Cl	X
Natural gas	-	X
Nitrogen	N ₂	X
Oils	Mineral	X
Oils	Vegetable	X
Oxygen	O ₂	X
Ozone	-	
Perchlorethylene	CCl ₂ =CCL ₂	d
Petrol	All types	X
Phenolic acid	C ₆ H ₅ (OH)	
Sulphar dioxide	SO ₂	
Toluene (Metyl benzene)	C ₆ H ₅ CH ₃	X
Trichlorethene	CHCl=CCl ₂	d
Water	Steam / vapor	X
Water	Distilled, de-aerated	X
Water	Sea water	
Xylene	C ₆ H ₄ (CH ₃) ₂	X

X = recommended, d = dry