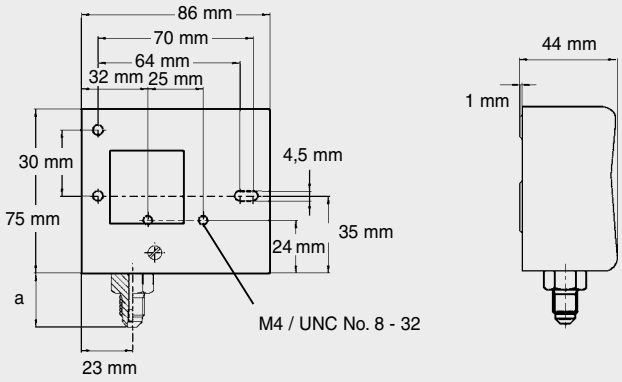
Pressure switch PS 1

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

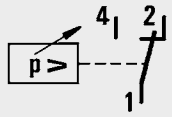
Control pressure switch PS 1-...

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.



Circuit diagram



Change-over contact

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" extern	1040007
PS1-A2R	- 0,8 ... 1,5	0,2 ... 1	- 1,0	0,5 / 1	13	G 1/4" extern	1040002
PS1-A3R	- 0,5 ... 7	0,5 ... 5	- 0,9	3,5 / 4,5	13	G 1/4" extern	1040008
PS1-A4R	1 ... 20	1 ... 10	0,3	8 / 10	23	G 1/4" extern	1040004
PS1-A5R	6 ... 31	2 ... 15	3,0	16 / 20	36	G 1/4" extern	1040009
PS1-A6R	4 ... 12	0,5 ... 7	0,1	6 / 7	16	G 1/4" extern	1040011

Technical data	
General	
Type of contact: PS1	1x Change-over contact (SPDT)
Contact material: Standard Special option	$CuAg^3$ 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 frame	Polycarbonate (PC) Steel
Materials with medium contact: Pressure connection (A/R) / bellows	Brass / bronze

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Media compatibility guide

Medium name	Chemical Formula	Bronze
Acetone	CH_3COCH_3	X
Acetylene	HC = CH	
Air	-	X
Benzene	Sulphur-free	X
Butane	C_4H_{10}	X
Butyl acetate	$CH_3COOC_4H_9$	X
Butyl alcohol	CH_3-CH_2-CH_2-CH_2-OH	X
Carbon dioxide	CO_2	X
Carbonic acid	H_2CO_3	X
Chlorine	Cl_2	
Crude oil	-	X
Diesel oil	See fuels	X
Ethyl acetate	$CH_3OOOC_2H_5$	X
Fuels	Diesel oil,	X
	Leaded petrol	X
	Benzene	X
Glycerine	CH_2OH-CHOH-CH_2OH	X
Glycol	CH_2OH-CH_2OH	X
Heating fuel oil	See also oils	X
Hydrogen	H_2	X
Inert gases	-	X
Methanol	CH_3OH	X
Methyl chloride	CH_3Cl	X
Natural gas	-	X
Nitrogen	N2	X
Oils	Mineral	X
Oils	Vagetable	X
Oxygen	O_2	X
Ozone	-	
Perchlorethylene	CCl_2=CCL_2	d
Petrol	All types	X
Phenolic acid	$C_6H_5(OH)$	
Sulphar dioxide	SO_2	
Toluene (Metyl benzene)	$C_6H_5CH_3$	X
Trichlorethene	CHCl=CCl_2	d
Water	Steam / vapor	X
Water	Destilled, de-aerated	X
Water	Sea water	
Xylene	$C_6H_4(CH_3)_2$	X

X = recommended, d = dry