Реле давления серий MD, PAS, PI

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GENERAL CHARACTERISTICS

Mechanical Pressure Switch for liquids and gaseous media. A diaphragm (low pressure) or a piston (high pressure) is pre- triggered via spring with the possibility to change the spring characteristic. During this modification a switch point can be selected within a certain range.

- compact dimensions
- good repeatabilty

Male thread R1/8" to R1/4" aluminium

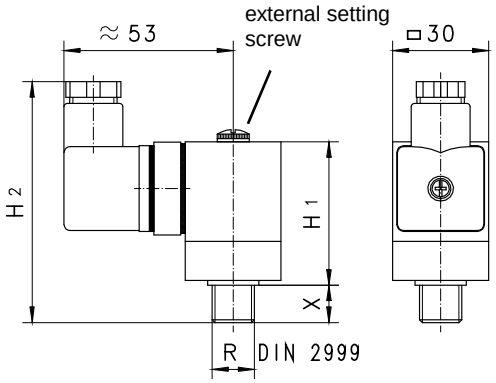
TECHNICAL DATA

PI-300A008H

	R	Type	PN bar	adjustable range bar (rel.)	tolerance (25℃) bar	operation principle	H_1 mm	H_2 mm	X mm	weight kg
aluminum	R1/8"	PI-005A004H	60	0.2 - 5	±0.1	diaphragm	44	75	10	0.10
		PI-010A004H	100	0.5 - 10	±0.2					
		PI-025A004H	100	10 - 25	±0.5					
		PI-080A004H	150	25 - 80	±1.0					
	R1/4"	PI-150A008H	600	30 - 150	±7.0	piston	46	78	12	0.22
		PI-300A008H	600	150 - 300	±7.0					

Adjustable range is indicated for increasing pressure.

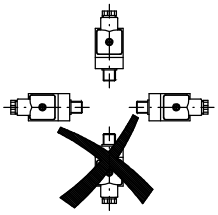
media temperature max. 60℃
hysteresis <30% from switch value



MATERIALS

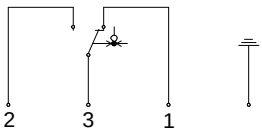
body	aluminium
diaphragm	NBR
piston	brass
spring	stainless steel 1.4310

MOUNTING POSITION

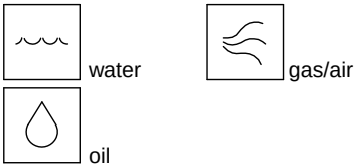


ELECTRICAL DATA

mechanical switch
wiring 0.280 change over
250 V AC 3A (2A inductive)
plug DIN 43650-A
protection class IP 65



METERING SUBSTANCES



NOMENCLATURE

For combinations see table "technical data".

PI-	005	A	004	H	basic type / specification		
	005				●	adjustable range	0,2 - 5 bar (rel.)
	010				●		0,5 - 10 bar (rel.)
	025				●		10 - 25 bar (rel.)
	080				●		25 - 80 bar (rel.)
	150				●		30 - 150 bar (rel.)
	300				●		150 - 300 bar (rel.)
		A			●		aluminium
			004		●		connection thread R1/8"
			008		●		connection thread R1/4"
				H	●		socket thread

●BASIC Standard ❍BASIC Programme option ❑VARIO Special option ⊕ PLUS Accessories ✕not recommendable

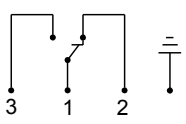
Pressure switch PAS

- **Repeatability**
- **Adjustable switch point**
- **Change over contact**
- **Plug DIN 43650-A / ISO 4400**

Characteristics

Mechanical pressure switch in which a piston is pre-tensioned by a spring. An adjustment knob permits the setting of the switch point. The setting can be fixed with hexagon socket screw.

Technical Data

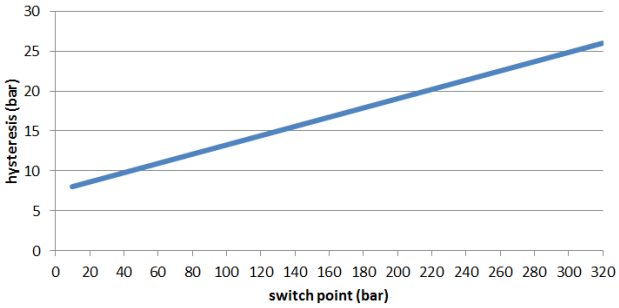
Switch	Mechanical switch	
Process connection	Male thread	$G^1/_4$A fixed
		$G^1/_4$A flexible
		M10×1 flexible
	Female thread	$G^1/_4$ fixed
	Flange	DIN ISO 163873
Switching range	10..320 bar see table “Ranges”	
Hysteresis	see graph “Hysteresis”	
Tolerance	±2 % at RT relative to the full scale value	
Pressure resistance	PS 350 bar	
Media temperature	-20..+80 °C (Viton 0..100°C)	
Ambient temperature	-20..+80 °C	
Media	self-lubricating fluid such as hydraulic oil, lubricating oil, light fuel oil and neutral fluids such as water and some gases.	
Switching frequency	maximum 100 cycles/min.	
Wiring	Plug DIN 43650-A / ISO 4400 Changeover No. 0.342	
Switching voltage switching current (maximum values)	Resistive load 4 A at 24 V DC, 6 A at 250V AC Inductive load 1 A at 24 V DC, 2 A at 250 V AC	
Protection class	1 – PE – connection	
Ingress protection	IP 65	

Electr. connection	Plug DIN 43650-A / ISO 4400
Materials	Housing: Zinc die casting, Adjustment knob: aluminium (powder coated)
Material Sealing	Static: NBR or EPDM or Viton Dynamic: PTFE
Weight	0,325 kg
Installation location	Any mounting position, hydraulic connection to bottom is not advisable.

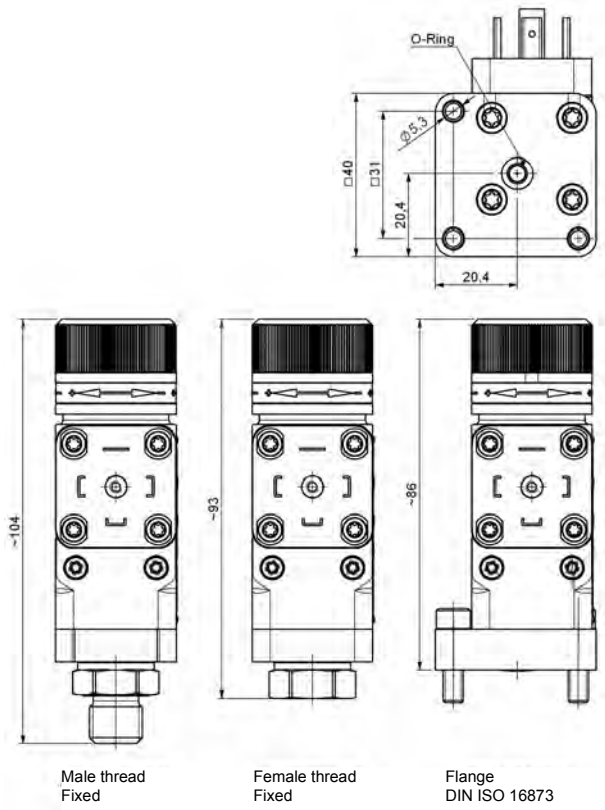
Ranges

Switching range bar (rel.)	**Type**
10 - 30	PAS-030Z...
10 - 80	PAS-080Z...
10 - 120	PAS-120Z...
10 - 160	PAS-160Z...
20 - 200	PAS-200Z...
20 - 250	PAS-250Z...
30 - 320	PAS-320Z...

Hysteresis



Dimensions



Handling and operation

Notes

- If the medium is dirty, install a filter.
- It must be ensured that the values given for voltage, current, and power are not exceeded.
- Check resistance to aggressive media, no DI water.

Torques and thread lengths of the fluid connection:
G1/4A, G1/4, R1/4, NPT1/4: 20-25 Nm,11 mm
M10×1: 15-20 Nm, 10 mm
Flange: 6-8 Nm, 3 washer M5

Adjustment

- Turning the adjusting knob to the left for a larger value, turning to the right for a smaller value. After setting the knob can be fixed with a hexagon socket screw by using the supplied key.

Odering code

PAS - [1.] [Z] [2.] [3.] [4.] [5.] [6.]

1.	**Switching range**							
	030	10 - 30 bar						
	080	10 - 80 bar						
	120	10 - 120 bar						
	160	10 - 160 bar						
	200	20 - 200 bar						
	250	20 - 250 bar						
	320	30 - 320 bar						
2.	**Connection material**							
	Z	Zinc die casting						
3.	**Connection size**							
	008G	Female thread	$G^1/_4$					
	008A	Male thread	$G^1/_4$ A					
	031F	Flange	DIN ISO 163873					
	009H	Male thread	$G^1/_4$					
	011A	Male thread	M10×1					
	012H	Male thread	NPT $^1/_4$					
4.	**Rotatable (connection pressure site)**							
	0	Fixed				●	●	●
	1	Rotatable		●	●	●		
5.	**Electrical connection**							
	B	For plug DIN 43650-A / ISO 4400						
6.	**Sealing**							
	N	Dynamic	NBR					
	E		EPDM					
	V		Viton					

Options

- Factory setting of the switch point on falling or rising pressure.

GENERAL CHARACTERICS

A diaphragm triggers a contact while reaching the pressure or differential pressure value selected. The switch point is adjusted by means of a calibrated dial which is arranged below the transparent cap.

- optional installation
- good repeatabilty
- low pressure ranges

Nozzle Ø6,2 ABS

MD-006P006T

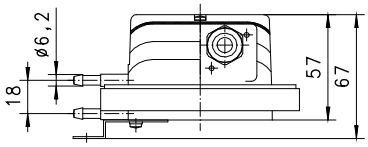
TECHNICAL DATA

	DN	Type	PN bar	adjustable range mbar (rel.)	hysteresis mbar	weight kg
ABS	6	MD-003P006T	0.15	0.2 - 3	0.1 - 0.15	0.30
		MD-006P006T	0.3	0.4 - 6	0.2 - 0.30	0.25
		MD-010P006T	0.3	1.0 - 10	0.2 - 0.35	0.25

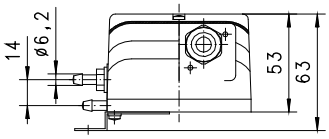
Adjustable range is indicated for increasing pressure and vertical installation.

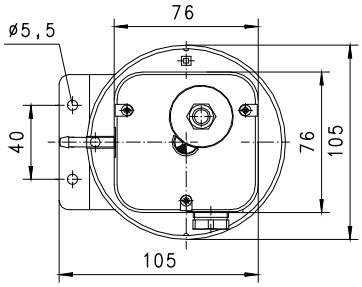
media temperature max. 80°C
tolerance ±10%
of selected switch value

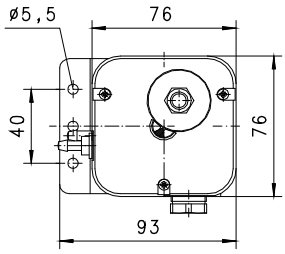
MD-003P006T



MD-006P006T
MD-010P006T



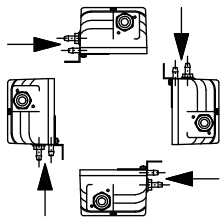




MATERIALS

body ABS
diaphragm NBR

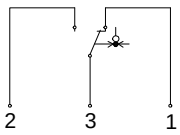
MOUNTING POSITION



Attention! During horizontal installation the selected switch point is reduced or extended by 0.2 mbar.

ELECTRICAL DATA

mechanical switch gold contact
wiring 0.280 change over
250 V AC 5(0.5)A
24 V AC 1(0.2)A
cable gland Pg 9
protection class IP 54



METERING SUBSTANCES

gas/air

NOMENCLATURE

MD-	003	P	006	T		basic type / specification
	003				●	adjustable range 0.2 - 3 mbar (rel.)
	006				●	adjustable range 0.4 - 6 mbar (rel.)
	010				●	adjustable range 1.0 - 10 mbar (rel.)
		P			●	ABS
			006		●	nominal diameter DN 6
				T	●	nozzle

●BASIC Standard ❍BASIC Programme option ❑VARIO Special option ⊕ PLUS Accessories ✕ not recommendable

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