



Membrane Pressure Switch AF24 – Type MDL:

- Snap action micro switch
- 48V / 2A, higher on request
- Change over contact SPDT
- Elastomer membrane
- Adjustment range: 1...10bar
- Max. system pressure 200 bar
- Preset ex works possible
- Mounted pressure damper 0,3mm
- Small design
- E-connection Faston 6,3x0,8 alternative M12x1, Deutsch 2-pin or cable outlet

Order code

MDL - A - BBB - C - DE - F

| A | Output | |
|---|--------|----------------------|
| | 1 | = SPDT |
| | 6 | = normally open NO |
| | 7 | = normally closed NC |

| D | Fluid connection material | |
|---|---------------------------|---------------------|
| | without | = zinc plated steel |
| S | = stainless steel 1.4305 | |

| BBB | Pressure adjustment range | |
|-----|---------------------------|-------------|
| | 005 | = 1...10bar |
| | other on request | |

| E | Fluid connection | |
|---|------------------|--|
| | 1 | = G1/8" 9 = M10x1 |
| | 3 | = G1/4" D = R1/8" |
| | 6 | = 1/4NPT R = R1/4" |
| | E | = 1/8NPT Z = R3/8" |
| | K | = 7/16-20 UNF |

| C | High Pressure Membran | |
|---|-----------------------|---|
| | P | = NBR -20...+80°C |
| | T | = LowTemperatur-NBR -40...+80°C |
| | V | = Viton 0...+100°C |

| F | Electrical connection | |
|---|-----------------------|--------------------|
| | 3 | = Faston 3x6,3x0,8 |
| | 2 | = plug M12x1 |
| | 4 | = Deutsch DT04-2P |
| | 5 | = cable output |

Options

| | |
|----------|---|
| xx,x bar | set point adjustment increasing or decreasing, factory preset |
| 102296 | rubber protection cap |
| 011041 | 1,5m cable with socket M12x1 |

Order sample: MDL-1-005-P-3-2

Pressure Switch MDL
Output: SPDT
Adjustment range: 1...10bar
High pressure membrane: NBR
Fluid connection: male G1/4"
E-connection: M12x1

Technical Data

| | |
|----------------------------|---|
| Construction: | snap action micro switch AF24 with high pressure membrane |
| Operating fluid: | neutral fluids/gases |
| Mechanical installation: | over fluid connection |
| Mounting position: | any |
| Max. system pressure: | 200bar |
| Repeatability: | max. $\pm 2\%$ of full scale at room temperature |
| Hysteresis*: | guide value: 0,1bar + 5...10% of set point, not adjustable |
| Life cycles, mech.: | $> 1 \times 10^6$ |
| Max. switching frequency: | $\sim 1\text{Hz}$ |
| Temperature range*: | $-40 \dots +80^\circ\text{C}$ as a function of used elastomere |
| Vibration resistance: | 10g (10 ... 2000Hz) sinus acc. to ISO 16750-3 |
| Shock resistance: | 30g, 14ms shaped sinus acc. to DIN 40046, T7 |
| Switching element: | snap action micro switch with self cleaning pins |
| CE-mark: | acc. to EU-standards: 2014/35/EU (LVD), 2011/65/EU (RoHS) |
| Protection class EN 60529: | IP00 using Faston 6,3x0,8 IP67 using plug M12x1, Deutsch / up to IP68 using cable outlet |
| Weight: | $\sim 0,1\text{kg}$ |

* please contact the technical support for alternative or special requirements regarding hysteresis and temperature
Subject to technical alternations!

Electrical connection data – dimensions

| | Faston 6,3x0,8 | | M12x1 | | Cable outlet | | Deutsch DT04-2P | |
|----------------|----------------|---------------|---------------|---------------|---------------|---------------|-----------------|---------------|
| | | | | | | | | |
| | | | | | | | | |
| | 48 VAC | 24 VDC | 48 VAC | 24 VDC | 48 VAC | 24 VDC | 48 VAC | 24 VDC |
| ohmic load | 2A | 2A | 2A | 2A | 2A | 2A | 2A | 2A |
| Inductive load | 2A | 1A | 2A | 1A | 2A | 1A | 2A | 1A |