



Vacuum Switch AF24 – Type VDL:

- Snap action micro switch
- 48V / 2A, higher on request
- Change over contact SPDT
- Elastomer membrane
- Adjustment range: -0,85... -0,15bar
- Preset ex works possible
- Small design
- E-connection Faston 6,3x0,8 alternative M12x1, Deutsch 2-pin or cable outlet

Order code

VDL - 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 / ANSI 303 | |

| BBB | Pressure adjustment range | |
|------------|----------------------------------|--|
| | 000 = - 0,85... - 0,15bar | |

| E | Fluid connection | |
|----------|-------------------------|--|
| | 1 = G1/8" | |
| | 3 = G1/4" | |

| C | Membrane | |
|----------|-----------------------|--------------|
| | M = NBR | -20...+80°C |
| | T = LowTemperatur-NBR | -40...+80°C |
| | E = EPDM | -40...+100°C |
| | F = FVMQ | -40...+100°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

| | |
|-------------------|---------------------------------------------------------------|
| - 0,xx bar | set point adjustment increasing or decreasing, factory preset |
| 102296 | rubber protection cap |
| 011041 | 1,5m cable with socket M12x1 |

Order sample: VDL-1-000-E-3-3

Vacuum Switch VDL
Output: SPDT
Adjustment range: -0,85...-0,15bar
Membrane: EPDM
Fluid connection: male G1/4" fixed
E-connection: spade terminals 3x6,3x0,8

Technical data

| | |
|----------------------------|---------------------------------------------------------------------------------------------|
| Construction: | snap action micro swith AF24 |
| Operating fluid: | neutral gases |
| Mechanical installation: | over fluid connection |
| Mounting position: | any |
| Max. system pressure: | 20bar |
| Repeatability: | guide value $\pm 0,05$ bar at room temperature |
| Hysteresis*: | guide value: 250mbar, not adjustable |
| Life cycles, mech.: | $> 1 \times 10^6$ |
| Max. switching frequency: | ~ 1 Hz |
| Temperature range*: | -40...+100°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 |
| Swiching element: | snap action micro swith 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: | $\sim 0,1$ 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 |