## Pressure Switches Standard

## Vacuum switch for liquid, gas (VCM)



For monitoring vacuum of non-aggressive liquids and gaseous media.

**Kind of pressure** vacuum, relative

**Pressure connection** internal thread G1/4, external thread G1/2

**Electrical connection** Plug DIN EN 175301

IP class IP54

**Housing material** rugged housing of seawater resistant aluminium die casting GD Al

Si 12.

Media temp.  $-25 \dots 70 \,^{\circ}\text{C}$ 

**Media temp. limit** temperatures up to 85 °C are allowable for short periods. Higher temperatures are possible, provided that the limit is safeguarded

by suitable measures (e.g. water tube trap, see Accessories for

Pressure Switches / Transmitters)

Ambient temperature
Ambient temp. limit

**-**25 ... 70 °C

at temperatures below 0  $^{\rm o}$ C, ensure that no water condensation

can arise in the sensor and in the switching device

Switch function/capacity Optional functions

SPDT Microswitch 250 Vac; capacity 5 A inductive, 8 A resistive add the type numbers below to the listed type numbers for extra functionality as described

- **-301**: terminal connection housing, IP65
- -307: two microswitches, switching in parallel or in succession, fixed switching interval, terminal connection case (with the exception of VCM4156), IP65
- -217: two microswitches, 1 plug, switching in succession, adjustable switching interval (with the exception of VCM4156)
- **-213**: gold-plated contacts, switching capacity: max. 24 Vdc, 100 mA, min. 5 Vdc, 2 mA. And others not available with adjustable switching difference.
- -351: protection class IP65 and switching housing with surface protection (chemical version)
- -513: gold-plated contacts, switching differential permanent, IP65, switching capacity: max. 24 Vdc, 100 mA, min. 5 Vdc, 2 mA; suitable isolating switching amplifier necessary, degree of protection Ex-i

**Certificates** SIL2 according IEC 61508-2

Medium typeliquid or gasScale calibrationfalling pressure

## Fixed pressure hysteresis

Туре	Sensing element material	Max. pressure bar	Switching diff. mbar	Adj. switching diff. bar	Pressure adjustment range bar
VCM4156	Perbunan + Stainless Steel	1	2	_	-0.015 0.006
VCM301	Copper + Brass	1.5	25	-	-0.25 0.1
VCM101	Copper + Brass	3	45	-	-1 0.1
VCM095	Copper + Brass	3	50	-	-0.9 0.5
VNM111	Stainless Steel	6	50	_	-1 0.1

## Adjustable pressure hysteresis

Type	Sensing element material	Max. pressure bar	Switching diff. mbar	Adj. switching diff. bar	Pressure adjustment range bar
VCMV101	Copper + Brass	3	=	0.08 0.35	-1 0.1
VCMV095	Copper + Brass	3	-	0.09 0.4	-0.9 0.5
VNMV111	Stainless Steel	6	=	0.09 0.65	-1 0.1

Syphon for high temperature, steel, U-shape (for more accessories, see Accessories for Pressure Switches / Transmitters)

U430B