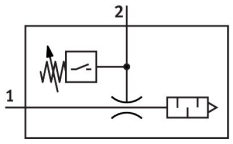
Vacuum generator
VN-05-L-T4-PQ2-VQ2-O1-P

Part number: 536798





Data sheet

Feature	Value
Nominal width of Laval nozzle	0.45 mm
Width dimension	16 mm
Muffler construction type	Open
Mounting position	Any
Ejector characteristics	High suction flow Standard
Integrated function	Pressure sensor Muffler open
Structural design	T-shape
Short-circuit protection	Pulsed
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Method of measurement	Relative
Switching element function	N.O. contact
Switching function	Threshold value comparator Threshold value with fixed hysteresis
Reverse polarity protection	for all electrical connections
Display type	LED
Setting range threshold value	-100 kPa...0 kPa -1 bar...0 bar
Setting options	Teach-in
Switching status indication	LED
Threshold value setting range	-14.5 psi...0 psi
Operating pressure for max. suction rate	0.5 MPa 5 bar 72.5 psi
Operating pressure	0.1 MPa...0.8 MPa 1 bar...8 bar 14.5 psi...116 psi
Nominal operating pressure	0.6 MPa 6 bar 87 psi
Max. suction rate with respect to atmosphere	13.6 l/min
Switch-off time	4 ms

Feature	Value
On time	4 ms
DC operating voltage range	15 V...30 V
Inductive protective circuit	Adapted to MZ, MY and ME coils
Max. output current	100 mA
Residual current	0.3 mA
Residual ripple	10%
Switching output	PNP
Voltage drop	1.5 V
Overload protection	Available
Certification	RCM compliance mark
KC characters	KC-EMV
CE marking (see declaration of conformity)	As per EU EMC directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:4]
Information on operating and pilot media	Operation with oil lubrication not possible
Corrosion resistance class (CRC)	1 - Low corrosion stress
LABS (PWIS) conformity	VDMA24364-B1/B2-L
Temperature of medium	0 °C...60 °C
Cleaning advice	Soap suds
Noise level at nominal operating pressure	54 dB(A)
Degree of protection	IP40
Ambient temperature	0 °C...50 °C
Max. tightening torque	0.6 Nm
Pressure measuring range	-100 kPa...0 kPa -1 bar...0 bar -14.5 psi...0 psi
Product weight	33 g
Accuracy in ± % FS	1.5 %FS
Hysteresis in ± %FS	2 %FS
Long-term drift	±0.5% FS max.
Temperature coefficient of switching point	0.05 %/K
Electrical connection	3-pin M8
Type of mounting	With through-hole
Pneumatic connection 1	QS-6
Pneumatic connection 3	Muffler open
Vacuum connection	QS-6
Seals material	NBR
Female nozzle material	POM
Housing material	Reinforced POM
Fiber-optic cable	PC
Muffler material	Protective grounding
Material of plug housing	Brass PA Chrome-plated and nickel-plated
Material of jet nozzle	Wrought aluminum alloy
Material of keypad	POM
Material of pneumatic fitting	Brass Nickel-plated