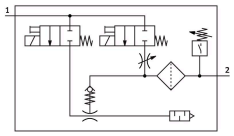
Vacuum generator
OVEM-14-H-B-GO-CE-N-1P

Part number: 540028





Data sheet

Feature	Value
Nominal size, Laval nozzle	1.4 mm
Grid dimension	20 mm
Silencer design	Open
Mounting position	optional
Ejector characteristic	High vacuum Standard
Grade of filtration	40 µm
Manual override	Non-detenting
Integrated function	Electric ejector pulse valve Flow control Electric on-off valve Filter Check valve Open silencer Vacuum switch
Design	Modular
Short circuit current rating	yes
Measured variable	Relative pressure
Measuring principle	Piezoresistive
Switching element function	N/O contact
Switching function	Threshold value comparator Threshold value with fixed hysteresis
Valve function	Closed
Reverse polarity protection	For all electrical connections
Standard switching input	IEC 61131-2
Display type	LED
Setting options	Teach-in
Switching position indicator	LED
Switching status indication	Optical
Setting range threshold value	-1 bar...0 bar
Operating pressure	2 bar...8 bar
Operating pressure for max. vacuum	3.6 bar
Max. vacuum	93 %
Nominal operating pressure	6 bar

Feature	Value
Max. suction flow rate against atmosphere	50.5 l/min
Air supply time at nominal operating pressure	0.2 s
Operational voltage range DC	20.4 V...27.6 V
Duty cycle	100%
Inductive protective circuit	Adapted to MZ, MY, ME coils
Insulation voltage	50 V
No-load supply current	80 mA
Max. output current	100 mA
Off-state current	0.1 mA
Switching output	PNP
Voltage drop	1.5 V
Characteristic coil data	24 V DC: low-current phase 0.3 W, high-current phase 2.55 W
Overload protection	Available
Pollution degree	3
Approval	RCM trademark c UL us listed (OL)
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating and pilot medium	Lubricated operation not possible
Corrosion resistance class CRC	2 - Moderate corrosion stress
LABS (PWIS) conformity	VDMA24364 zone III
Media temperature	0 °C...50 °C
Relative air humidity	5 - 85 %
Sound pressure level at nominal operating pressure	77 dB(A)
Degree of protection	IP65
Protection class	III
Ambient temperature	0 °C...50 °C
Max. tightening torque	0.8 Nm with female thread 2.5 Nm with through-hole
Product weight	375 g
Pressure measuring range	-1 bar...0 bar
Accuracy in ± % FS	0.5 %FS
Hysteresis	0.02 bar
Reproducibility of switching values FS	0.6 %
Switching logic for inputs	PNP (positive switching)
Electrical connection	5-pin M12x1 Plugs
Type of mounting	With through-hole Via female thread With accessories
Pneumatic connection, port 1	G1/4
Pneumatic connection, port 3	Integrated silencer
Vacuum connection	G1/4
Note on materials	RoHS-compliant
Material seals	NBR
Material receiver nozzle	POM
Material filter	Fabric PA Sintered steel
Material filter housing	PA-reinforced
Material housing	Die-cast aluminium PA-reinforced

Feature	Value
Material adjusting screw	Steel
Material silencer	Wrought aluminium alloy PU foam
Material screws	Steel
Material connector housing	Nickel-plated brass
Material electrical contact	Gold-plated brass
Material pins	Steel
Material transmitter nozzle	Wrought aluminium alloy
Material keypad	PA-reinforced
Material fitting	Anodised wrought aluminium alloy