

- **Quick and easy installation**
- **Converts vacuum signal into pneumatic output**
- **Fully adjustable switching points**



Technical Data

Medium:

Non corrosive gases and non lubricated air

Operation:

M/58028/VB normally open

M/58028/VF normally closed

Operating Temperature:

-10°C* to +80°C

* Consult our Technical Service for use below +2°C

Operating Pressure:

2 to 6 bar

Adjustable Range:

-0,3 to -0,85 bar

Authorized Overpressure:

2 bar

Hysteresis:

80 to 100 mbar

Operation Accuracy:

3% of the complete range

Repeatability:

< 3% of the complete range

Switching Frequency:

30 Hz

Flow Rate:

130 l/min max. M/58028/VB

70 l/min max. M/58028/VF

Air Consumption when Achieving the Switching Point:

3 NI/min

Tube Connection:

Nipple plug for tube of nominal size 2.7

Material:

Body: Polyacetal

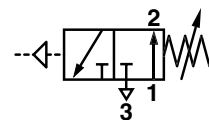
Ordering Information

To order a pneumatic vacuum switch (normally open)

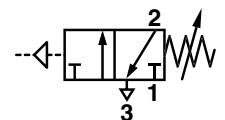
Quote: M/58028/VB

To order a pneumatic vacuum switch (normally closed)

Quote: M/58028/VF



M/58028/VB

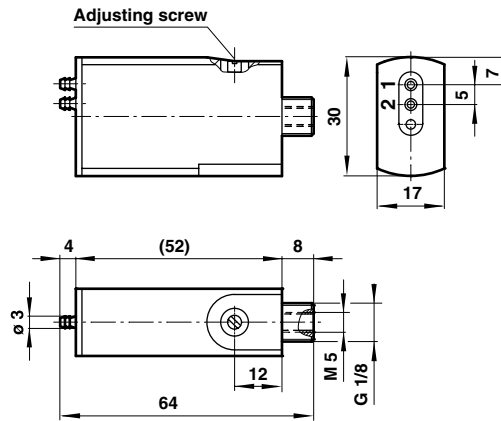


M/58028/VF



Basic Dimensions

Weight: 32 g



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under 'Technical Data'.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Electric Vacuum Switches

- **Quick, easy installation**
- **Converts vacuum signal into electrical output**
- **Robust construction**
- **Very compact size**


Technical Data

Medium:

Vacuum

Operation:

M/58024/VB Normally open

M/58024/VF Normally closed

Adjustment:

-0,2 to -1 bar

Repeatability:

±0,1 bar

Differential Reset Pressure:

Up to 0,2 bar

Operating Temperature:

-20°C to +80°C

Switching Voltage:

250 V d.c./ a.c.

Switching Current:

2 A maximum

Protection Rating:

IP 55 (DIN 40050)

Switching Frequency:

200/min

Weight:

0,09 kg

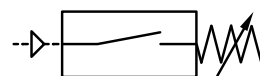
Materials:

Zinc plated steel body, silicone diaphragm

Ordering Information

To order an electric vacuum switch (normally open)
quote: M/58024/VB

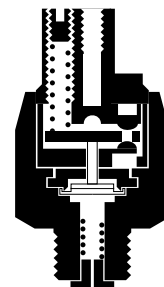
To order an electric vacuum switch (normally closed)
quote: M/58024/VF



M/58024/VB

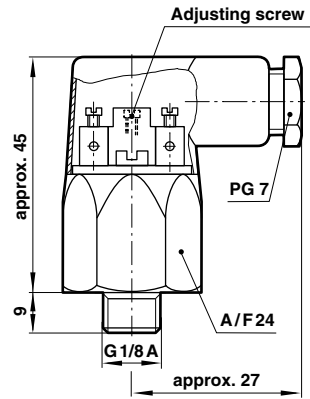


M/58024/VF





Basic Dimensions



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Electronic Vacuum Switches

- LED indicator as standard
- Converts vacuum signal into electronic output
- Digital output (PNP or NPN) and an analog output where the voltage is proportional to the vacuum
- Adjustable hysteresis and switching point

Technical Data

Medium:

Vacuum

Operation:

M/58027/VAN/P NPN grounded emitter output with LED

M/58027/VAP/P PNP open collector output with LED

Operating Temperature:

+50C maximum

Supply Voltage (U_b):

10,8 to 30 V d.c. (reverse polarity protection)

Switching Voltage:

U_b - 0,7 V

Quiescent Current Consumption:

25 mA

Digital Output:

Normally open, 125 mA maximum

Switching Point:

Adjustable between 0 and - 1 bar

Analog Output (0 / - 1 bar):

1 to 5 Vd.c. (±0,04 V)

Response Time:

< 5 ms

Protection Rating:

IP 65 (DIN 40050) when connected

Other Features:

Excess pressure relief device 6 bar maximum

Materials:

Zinc diecast housing, polycarbonate end caps


Ordering Information

To order an electronic vacuum switch (PNP) quote: M/58027/VAP/P

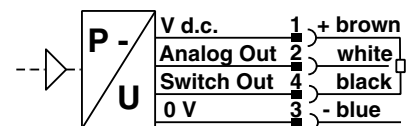
Order plug-in cable separately.

Accessories

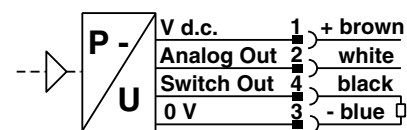
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Plug-in cable

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M/58027/VAN/P (NPN)



M/58027/VAP/P (PNP)

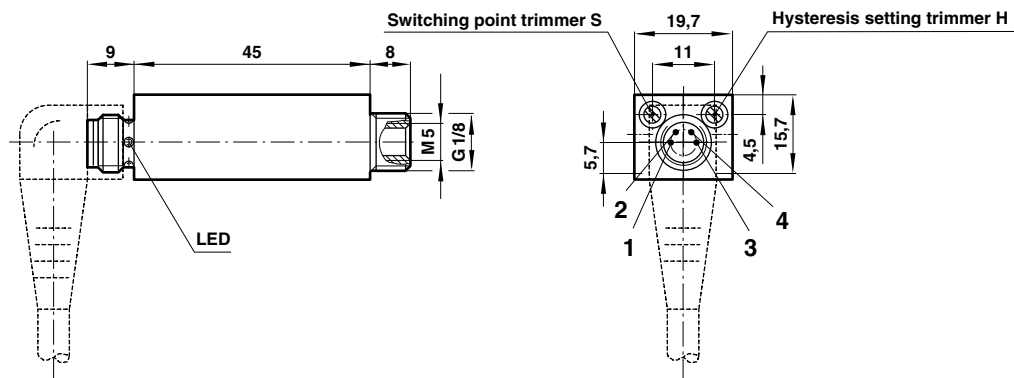


Weights for Switches and Plug-in Cable

Model	Weight (kg)	Plug-in Cable		
		Model	Outer cover	Weight (kg)
M/58027/VAN/P	0,028	M/P72014/*	Polyurethane	0,185
M/58027/VAP/P	0,028			

* Insert 5 m cable length

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