

# M/58027/VAN/P, M/58027/VAP/P

## Electronic vacuum switches



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



### Technical features

#### Medium:

Vacuum

#### Operation:

M/58027/VAN/P

NPN grounded emitter output with LED

M/58027/VAP/P

PNP open collector output with LED

#### Response time:

< 5 ms

#### Supply voltage (U<sub>b</sub>):

10,8 ...30 V d.c.

(reverse polarity protection)

#### Switching voltage:

(U<sub>b</sub>) -0,7 V

#### Quiescent current consumption:

25 mA

#### Digital output:

Normally open, 125 mA max.

#### Switching point:

Adjustable between 0 ... -1 bar (0 ... -14 psi)

#### Analogue output (0 ... -1 bar):

1 ... 5 V d.c. (± 0,04 V)

#### Protection rating:

IP 65 (DIN 40050) with plugged cable. Note: In order to achieve enclosure type IP65, the following enclosed components must be used for assembly:

Plug M 5 with gasket

Hose sleeve M 3 with gasket

#### Operating temperature:

+50°C max. (+122°F)

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

#### Materials:

Housing: zinc diecast

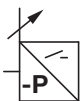

End caps: polycarbonate

#### Other Feature:

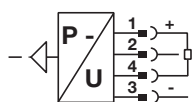
Excess pressure relief device

6 bar maximum

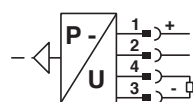
### Technical data

Symbol	Type	Function	Weight (kg)	Model
	Electronic	NPN + LED	0,028	M/58027/VAN/P
	Electronic	PNP + LED	0,028	M/58027/VAP/P

#### NPN version

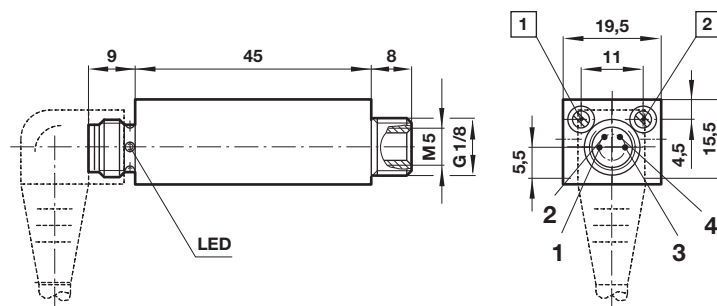


#### PNP version



Pin 1: V d.c. cable + brown  
Pin 2: Analog out, cable white  
Pin 3: Switch out, cable black  
Pin 4: 0V, cable - blue

### Drawing



Dimensions in mm  
Projection/First angle



- 1 Switching point trimmer S
- 2 Hysteresis setting trimmer H

### Accessories

#### Plug in cable for M/58027



M/P72014/5 \*

\* with 5 m cable length

## 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 features/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.