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

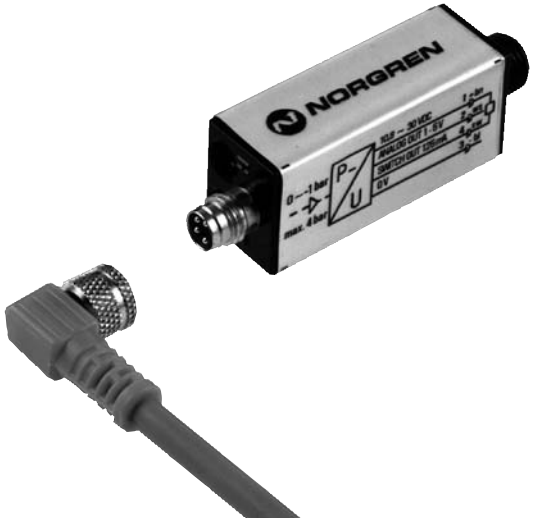
**Electronic vacuum switches**

**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 data

Medium:
Vacuum

Operation:
M/58027/VAN/P NPN grounded ermitter output with LED
M/58027/VAP/P PNP open collector output with LED

Operating temperature:
max. +50˚C

Supply voltage (Ub):
10,8 to 30 V d.c. (reverse polarity protection)

Switching voltage:
Ub - 0,7 V

Quiescent current consumption:
25 mA

Digital output:
Normally open, 125 mA max.

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)
Note: In order to achieve enclosure type IP65, the following enclosed components must be used for assembly: Plug M 3 with gasket
Hose sleeve M 3 with gasket
Order the tube (Ø 3 mm) separately

Other Feature:
Excess pressure relief device 6 bar maximum

## Materials:

Zinc diecast housing, polycarbonate end caps

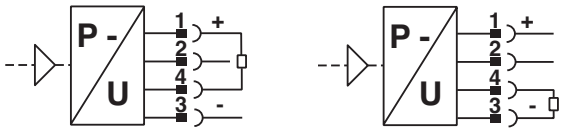
## Ordering Information

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

Order plug-in cable separately.

| Accessories | See page |
|---|---|
| Plug-in cable | N **4.3.**121.02 |

M/58027/VAN/P (NPN) M/58027/VAP/P (PNP)




**Pin 1: V DC, cabel + brown**

**Pin 2: Analog out, cabel white**

**Pin 3: Switch out, cabel black**

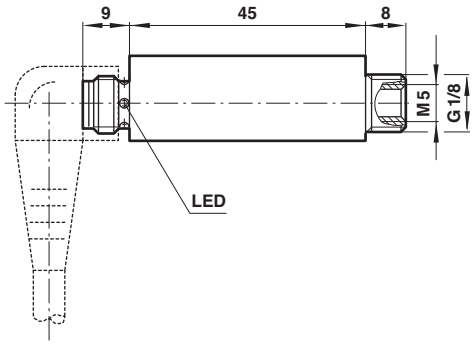
**Pin 4: 0V, cabel - blue**

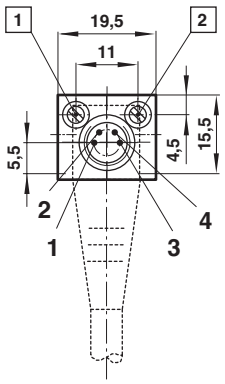
## Weights for switches and plug-in cable

| Model | Weight (kg) | Plug in cable Model | Outer cover | Weight (kg) |
|---|---|---|---|---|
| M/58027/VAN/P | 0,028 | M/P72014/5 *1) | Polyurethan | 0,185 |
| M/58027/VAP/P | 0,028 | | | |

*1) Insert 5 m cable length

## Basic dimensions




1 **Switching point trimmer S**

2 **Hysteresis setting trimmer H**

## Warning

These products are intended for use in industrial control systems only. Do not use these products where voltage, current and temperatures can exceed those listed under **'Technical Data'.**

Before using these products for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN.

Through misuse, age, or malfunction, components used in control systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in control 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.