



System monitoring | Vacuum switches

Vacuum switch – electronic with two digital outputs and analog output

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Product notes

- > Monitoring of vacuum levels, e.g. in handling systems
- > Optimization of cycle times to improve the economy of vacuum systems
- > Two freely adjustable digital outputs to set lower and upper threshold values
- > Analog output for continuous monitoring of vacuum level
- > Stable measurement even with short fluctuations of the supply pressure due to anti-chattering function
- > 7-segment 3-digit LED-display
- > Integrated reverse voltage protection
- > Compact and lightweight design

Notes

- > Vacuum values can be displayed and adjusted by the customer in following units: kPa, kgf/cm², bar, psi, inHg, mmHg

Ordering notes

- > Connector cable 0.3 meter with plug (M12 5-pin, straight) included in delivery
- > Connector cable optional
 - 20.508: M12, 5-pin, straight, open wires, 2 m
 - 20.509: M12, 5-pin, 90°, open wires, 2 m

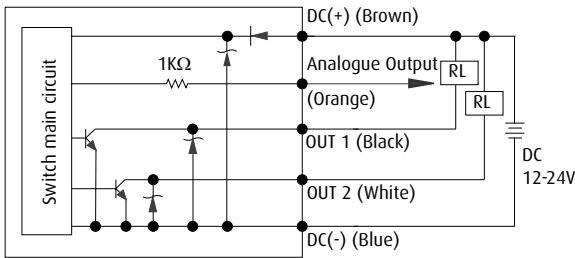
Technical data

Item no.	20.035	20.036
Measuring range [bar (inHg)]	-1 - 0 (-29.5 - 0)	-1 - 0 (-29.5 - 0)
Digital switching outputs	2 x PNP	2 x NPN
Analogue output [V]	1 - 5	1 - 5
Repeat accuracy [%]	≤ ± 0.2 % from measuring range	≤ ± 0.2 % from measuring range
Overpressure safety [bar (psi)]	3 (43.5)	3 (43.5)
Supply voltage [VDC]	10.8 - 30	10.8 - 30
Current consumption [mA]	≤ 55	≤ 55
Maximum switching current [mA]	80	80
Electric connection	Plug M12x1, 5-pin	Plug M12x1, 5-pin
Protection class	IP40	IP40
Suitable media	Dry, unoled air and non-abrasive gases	Dry, unoled air and non-abrasive gases
Operating temperature [°C (°F)]	0 - 50 (32 - 122)	0 - 50 (32 - 122)
Weight [g]	35	35
Suitable connector cable	20.508 20.509	20.508 20.509

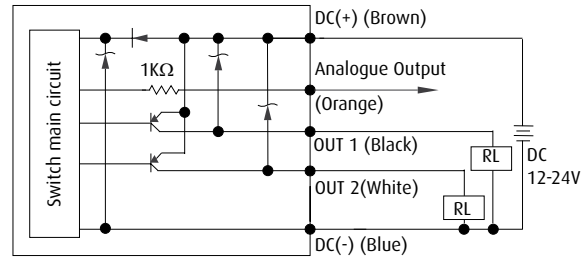


Wiring diagrams

20.035 (NPN)

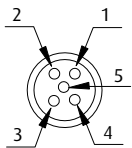


20.036 (PNP)



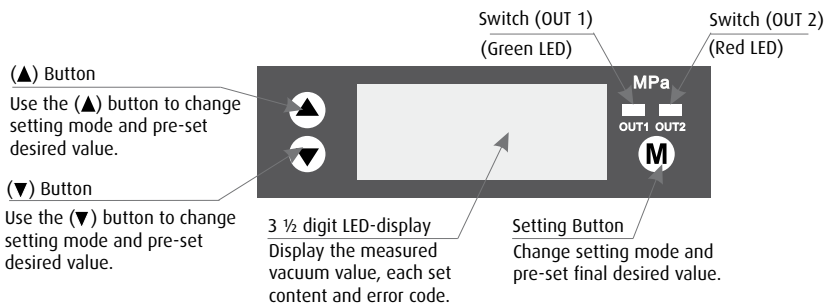
Plug assignment

20.035 and 20.036



- (1) Brown (+)
- (2) White (OUT 2)
- (3) Blue (-)
- (4) Black (OUT 1)
- (5) Orange (analogue OUT 1-5)

Panel instructions



Dimensions

