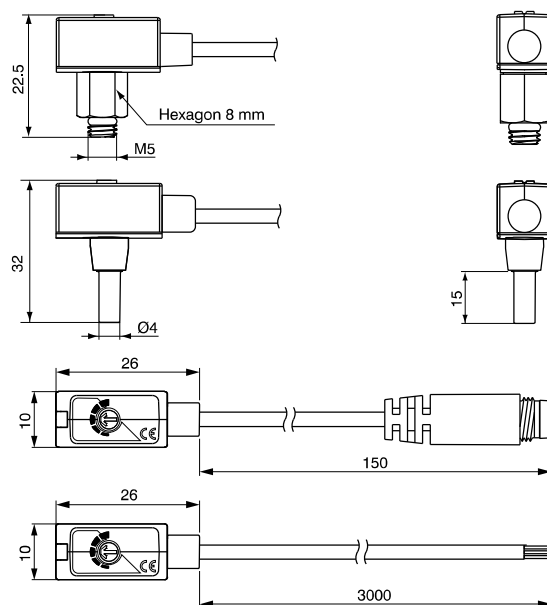


ACCESSORIES AND INSTRUMENTS

Vacuum switch, vacuum gauge, silencers and filters

Series 1900

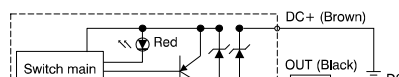
Mini digital vacuum switch



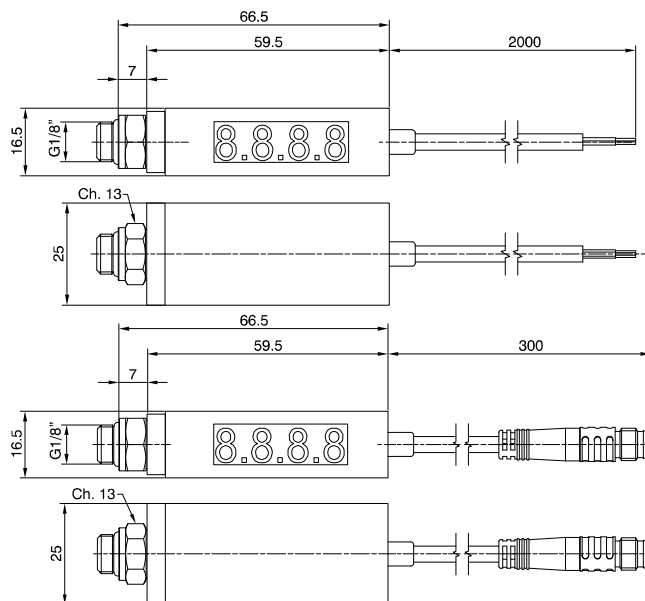
Ordering code	
DS.10.V.B.Ⓢ.Ⓛ.Ⓢ	
CONNECTION	
Ⓢ F4= Male M5	
R4= Plug-in connection Ø4	
CABLE LENGTH	
Ⓛ A=150 mm *	
E=3000 mm **	
OPTIONS	
Ⓢ 0= Without connector	
1= With connector M8 male 3 Pin	
* only with M8 connector	
** only without connector	

Technical features		
Working pressure range		0 ... -100.0kPa
Regulation pressure range		0 ... -100.0kPa
Maximum supported pressure		600 kPa
Allowed fluids		Air, non-corrosive gases, non-combustible gases
Supply voltage		From 12 to 30 VDC $\pm 10\%$
Current consumption		$\leq 10\text{mA}$
Digital output		PNP N.O. 1 outputs Maximum load current: 80mA Maximum supply voltage: 30VDC Voltage drop: $\leq 0.8\text{V}$
Repeatability (Digital output)		$\pm 1\%$ Full Scale
Digital output	Type of hysteresis	Fixed
	Hysteresis	3% Full Scale max.
Response time		1ms
Protection from short circuit at output		Present
Method of setting threshold		Adjustable, trimmer
Indicator		LED red (output)
Ingress protection rating	IP Rating	IP40
	Ambient temperature	Operational: 0 ... 60°C, Storage: -20 ... 70°C (without ice or condensation)
	Ambient humidity	Operational/Storage: 35 ... 85% (without condensation)
	Vibration	Total amplitude 1.5mm, 10Hz-55Hz-10Hz scanning for 1 minute, 2 hours in each direction of X, Y and Z
	Impacts/shocks	980m/s ² (100G), 3 times in each direction of X, Y and Z
Temperature characteristics		$\pm 2\%$ Full Scale in a range between 0 ... 50°C
Type of connection		Male M5x0.8, Plug-in connection Ø4
Electrical cable		Oilproof cable, 3 wires (0.18mm ²), Ø2.6mm
Weight		Approximately 50 gr. (with 3 metres of cable)

Output circuit wiring scheme



Digital vacuum switch



Ordering code

DS.30.C.C.F8.L.Ⓛ

CABLE LENGTH

L B=300 mm *

D=2000 mm **

OPTIONS

Ⓛ 0= Without connector

Ⓞ 2= With M8 4 Pin male connector

* only with M8 connector

** only without connector

Technical features

Working pressure range		-100.0 ... 100.0kPa
Regulation pressure range		-100.0 ... 100.0kPa
Maximum supported pressure		300 kPa
Allowed fluids		Air, non-corrosive gases, non-combustible gases
Pressure calibration sensitivity	kPa	0.1
	2 kgf/cm ²	0.001
	bar	0.001
	psi	0.01
	InHg	0.1
	mmHg	1
		0.1
Supply voltage		From 12 to 24 VDC ± 10%
Current consumption		≤ 60mA
Digital output		PNP N.O. 2 outputs Maximum load current: 80mA Maximum supply voltage: 30VDC Voltage drop: ≤1V
Repeatability (Digital output)		± 0.2% Full Scale ± 1 digit
Digital output	Type of hysteresis	Fixed
	Hysteresis	0.003 bar
Response time		≤2,5 ms (anti-interference function: 24ms, 192ms and 768 ms selectable)
Protection from short circuit at output		Present
Display		Display with 3 1/2 digits (sampling 5 times per sec.)
Indicator precision		±2% F. S. ± 1 digit (at ambient temperature of 25°C ±3°C)
Indicator		LED green (output1) LED red (output2)
Ingress protection rating	IP Rating	IP40
	Ambient temperature	Operational: 0 ... 50°C, Storage: -20 ... 60°C (without ice or condensation)
	Ambient humidity	Operational/Storage: 35 ... 85% (without condensation)
	Supported voltage	1000VAC in 1-min. (between body and cable)
	Insulation resistance	50MΩ min. (at 500VDC, between body and cable)
	Vibration	Total amplitude 1.5mm. or 10G, 10Hz-55Hz-10Hz scanning for 1 minute, 2 hours in each direction of X, Y and Z
Temperature characteristics	Impacts/shocks	980m/s ² (100G), 3 times in each direction of X, Y and Z
		±2% Full Scale in a range between 0 ... 50°C
Type of connection		G1/8" (Swivel)
Electrical cable		Oil resistant cable
Weight		Approximately 67 gr. (with 2 metres of cable)

Output circuit wiring scheme

