DATASHEET

D1-Series, DW40

Pressure Wave Switch **for pneumatic wave profiles**

The pressure wave system stands out thanks to its high level of response sensitivity, which enables it to protect people and vehicles from practically all directions. Due to their robustness and durability, these switches are also really impressive when used as opening sensors for automatic gates and vehicle doors on buses and trains.

Just a slight pressure of 3 to 4 mbar on the sensor is all that is needed to guarantee reliable switching. Pressure-wave switch systems are practically failsafe and maintenance-free, plus they offer a particularly favourable price-performance ratio.

Material data Overview	
Material, housing	PBT GF30
Material, metal parts	CuZn, Ni plated
Material, metal spring parts	Stainless Steel
Material, Sealing	EPDM
Material, Membrane	Silicone
Material, Bush	POM
Material, Switch contacts	AgNi

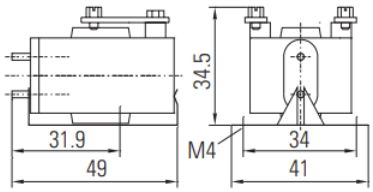
Technical data	
Dimensions in mm	49 x 41 x 34.5
Response pressure	min. 2 mbar / max. 150 mbar
Pressure equalisation	100 ml / min (@ 2 mbar)
Min./max. current	20 mA / 500 mA (ACDC ohmic)
Min./max. operating voltage	24 - 250 VAC, 24 - 50 VDC
Actuation resistance (typical / max.)	< 200 Ohm / 500 Ohm
Output	NC or NO
Mechanical service life	50 million switchings
Ambient temperature	-30°C to + 70°C

Conformity	
REACH compliance	published on www.bircher.com
RoHS compliance	published on www.bircher.com

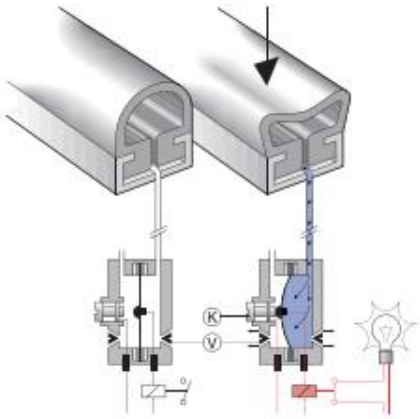
Options for DW40, p/n

210018	DW40	standard	Pressure closes contact	
210019	DW40AMP	option	Pressure closes contact, for AMP connectors	
210025	DW40DOE	option	Pressure opens contact	
210095	DWGK1	option	Screw-on housing (IP65) incl. of pressure wave switch	
210111	DWGK1DOE	option	Screw-on housing (IP65) incl. of pressure wave switch pressure opens contact	
210096	DWGK11	option	Snap-in housing (IP54) incl. of pressure wave switch	
210097	DWGK11DOE	option	Snap-in housing (IP54) incl. of pressure wave switch pressure opens contact	

Dimensions



Functional principles



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