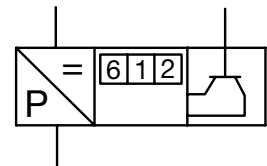


PROGRAMMABLE VACUUM AND PRESSURE SWITCH TRANSDUCER WITH DISPLAY DSB / DSC

Description	Pressure to the unit is continuously monitored by a piezo-resistive sensor and converted into a proportional voltage signal. The signal is then amplified and delivered as a PNP signal. dry, lubricated or unlubricated compressed air or non-corrosive gases		
Media			
Supply voltage	12 ... 30 V DC, reverse voltage protection, current consumption max. 30 mA, output current max. 250 mA		
Adjustment	DSB	Mode: hysteresis or window, switching point and hysteresis, NO or NC, closing or opening time, bar, psi, MPa, kg/cm ² etc. Display: current pressure, highest pressure, measurement errors	
Switching output	DSB	2x PNP freely programmable as NO or NC, max. contact load 250 mA, short-circuit-proof	
Switching output	DSC	1x PNP as at DSB and 1x analogue output signal 1...5 V, output impedance < 500 Ω	
Hysteresis		adjustable from 0% to 100% of set switching point	
Repeatability		< 0.2% FS	
LED display		3-digit, red 7-segment display on DSB, no display on DSC	
Error display		via 7-segment display on DSB, via multicolour LED on DSC	
Certifications		CSA-compliant, UL-listed	
Temperature range		-1 °C to 50 °C / 30 °F to 122 °F	
Material		Body: ABS-PC plastic, shockproof	
		Linearity	< 1% FS
		Switching frequency	200 Hz
		Mounting position	any
		Shock resistance	10 g
		Protection class	IP 65
		Connection thread	nickel-plated brass



**-1 ... 0/10 bar
output PNP/1-5V**

Dimensions	Digital display	Over-pressure	Output signal	Measurement	Order number
B mm	Ø mm	with / w/o max. bar	type PNP/analog	range max. mA bar	

Sensor pressure switch					connection thread G½ male, without coupling socket, M8x1, 4-pin		DS
57	16	with	2	2x PNP	250	0 ... -1	DSB-V1
			15			-1 ... +1	DSB-V2
						0 ... 10	DSB-10
						-1 ... 10	DSB-V10
						0 ... 12	DSB-12
44	16	without	2	1x PNP/1x analog	250	0 ... -1	DSC-V1
			15			-1 ... +1	DSC-V2
						-1 ... 10	DSC-V10



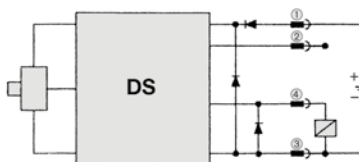
DSB with digital display



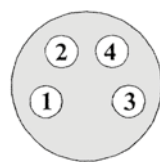
DSC

Accessories, enclosed

coupling socket	M8x1, 4-pin with 5 m cable	straight	KM8-A4-5
		angular	KM8-C4-5

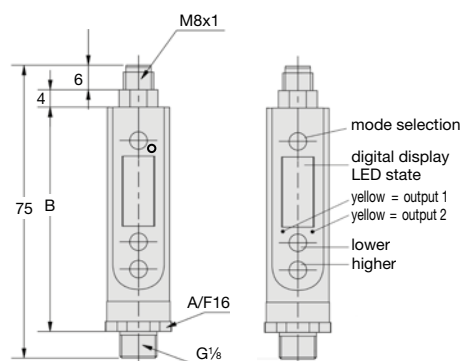
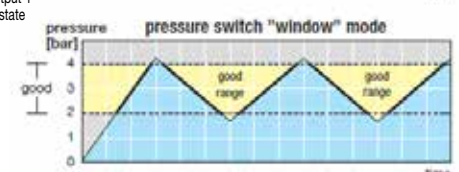
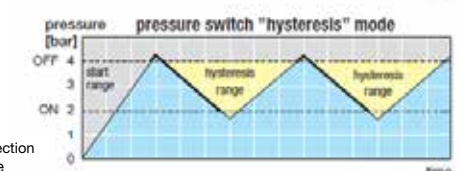
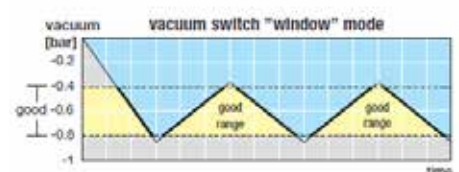
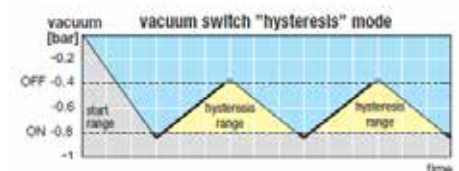


connection diagram

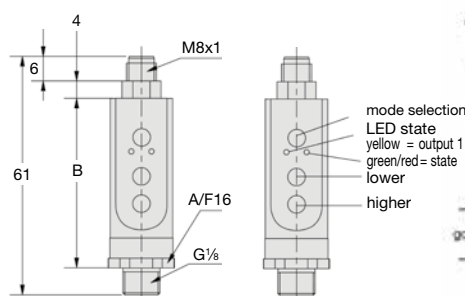


PIN configuration according to DIN EN 50044

pin	colour	configuration
1	brown	24 V DC (+)
2	white	outlet 2 / analog
3	blue	24 V DC (-)
4	black	outlet 1 / digital



DSB



DSC

* Product group

PDF CAD
www.aircom.net



Order example:
DSB-V1