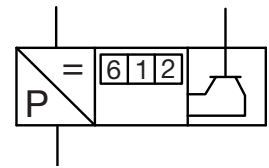


Programmable Vacuum and Pressure Switch Transducer with Display DSD / DSE

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.	
Media	dry, lubricated or unlubricated compressed air or non-corrosive gases	
Supply voltage	12...30 V DC, reverse voltage protection, current consumption max. 30 mA, output current max. 250 mA	
Adjustment	DSD	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	DSD	2x PNP freely programmable as NO or NC, max. contact load 250 mA, short-circuit-proof
Switching output	DSE	1x PNP as at DSD 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 DSD, no display on DSE	
Error display	via 7-segment display on DSD, via multicolour LED on DSE	
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
PNP output / 1-5V

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

Sensor pressure switch					connection thread G½ male, without coupling socket, M8x1, 4-pin	DS	
57	16	with	5	2x PNP	250	0... -1	DSD-V1
						-1... +1	DSD-V2
		16	5	1x PNP/1x analog	250	0... 10	DSD-10
						-1... 10	DSD-V10
44	16	without	5	1x PNP/1x analog	250	0... -1	DSE-V1
						-1... +1	DSE-V2
		16	5	1x PNP/1x analog	250	0... 10	DSE-V10
						-1... 10	DSE-V10



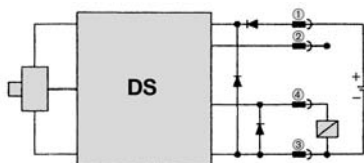
DSD with digital display



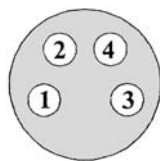
DSE

Accessories, enclosed

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

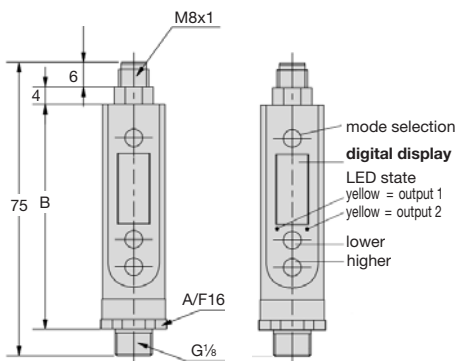
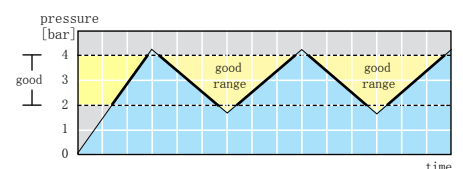
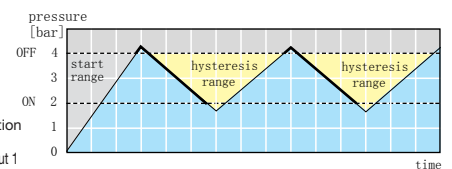
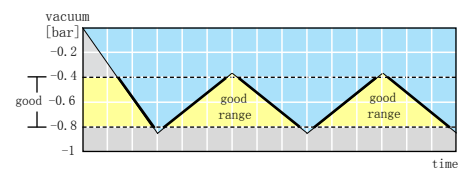
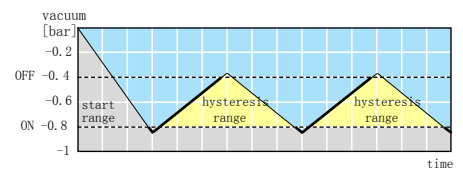


connection diagram

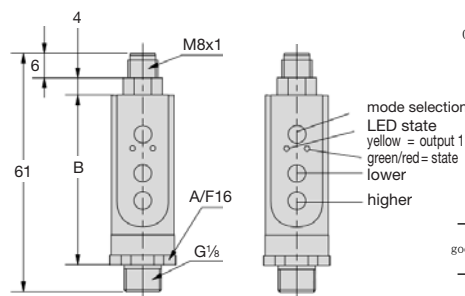


PIN configuration according to DIN EN 50044

PIN configuration 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



DSD



Order example
DSD-V1

China website: www.duray-control.cn