T: +44 (0)1825 764737
F: +44 (0)1825 768330
E: info@appeng.co.uk
www.appeng.co.uk

APPLICATIONS ENGINEERING LTD

PRESSURE SWITCH AE-DSP RANGE

Dual Set Point Pressure switch designed for use in fire sprinkler systems.

The AE-DSP pressure switch has been developed by Applications Engineering Ltd to detect an increase and/or decrease in the system pressure of a fire sprinkler system. There are four options available, with adjustable pressure setting from 0.3 Bar up to 9 bar.

1. Two independent pressure switches with separate adjustment
2. Two 1/2" cable glands supplied and fitted
3. Adjustment guide for easy setting
4. Two sets of SPDT contacts
5. Captive screws and moulded nuts for easy installation

CE UK CA

Technical Data	
Max System Pressure	40 Bar
Medium Temperature	Water(0 to 85°C); Air(-10 to 85°C)
Ambient Temperature	-10 to 85°C
Protection Class	IP65
Switching	SPDT, snap action
Switch Rating	250VAC 22(8)A
Life	6000 Cycles
Dielectric strength	1500V, 0.5mA, 1min
Insulation resistance	>100mΩ, 500VDC
Action	Momentary
Set point calibration	Field adjustable with knob

Materials	
Housing	With fibre glass PA66,UL94 V0
Membranes	Silicone

Order Codes	Pressure Values	Hysteresis
AE-DSP1	0.3-0.6 Bar	0.15 Bar
AE-DSP2	0.40-1.20 Bar	0.15 Bar
AE-DSP3	0.9-3.0 Bar	0.30 Bar
AE-DSP4	1.5-9 Bar	0.90 Bar

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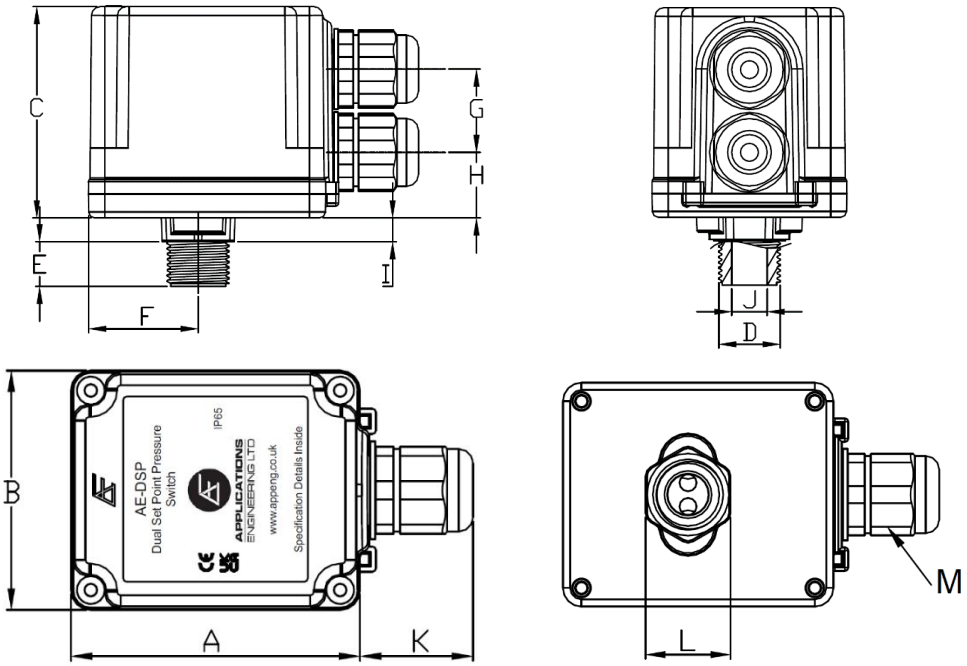
AE-DSP EXTERNAL DIMENSIONS

Fig. 1



A	80mm	H	22mm
B	66mm	I	8mm
C	71mm	J	⌀12
D	½ BSPT	K	≈30
E	15mm	L	HEX25
F	37mm	M	M20x1.5
G	28mm		

Installation Guide

1. Connect the PS40 to the system side of any shutoff or check valve.
2. Apply PTFE tape to the threaded male connection on the device.
3. Device should be mounted in the upright position. (Threaded connection down)
4. Tighten using a wrench on the flats on the device.

Wiring

Run wires though the cable gland and into the corresponding terminals labelled in figure 2.

AE-DSP INTERNALS

Fig. 2

Adjusting Pressure Set Point

To adjust the set point, turn the adjustment knobs clockwise to increase the pressure and anticlockwise to decrease the pressure, (the pressure setting labels are provided as a guide only, and may not be exact). Both switches operate independently of each other and may be independently adjusted to trigger at any point across the switch adjustment range. Final adjustments should be verified with a pressure gauge.