

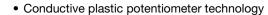
Vishay MCB

Analog Displacement Sensors for Transportation Applications



QUICK REFERENCE DATA					
Sensor type	ROTATIONAL, conductive plastic				
Output type	Output by cable				
Market appliance	Transportation				
Dimensions	41 mm x 34 mm x 23.37 mm				

FEATURES





COMPLIANT

• Use in engine compartment

• Travel: 240°

· Sealed sheath outputs

· Lever drive with return spring

• Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

ELECTRICAL SPECIFICATIONS				
PARAMETER				
Total electrical travel	250° ± 3°			
Independent linearity	± 1.5 %			
Total resistance (R _n)	4 kΩ ± 20 %			
Output smoothness	< 0.1 % (NFC 93255)			
Power rating at +40 °C	0.5 W			
Power rating at +125 °C	0.05 W			
Wiper current limiting resistance (Rp)	1.7 kΩ			
Recommended wiper current	< 100 μΑ			
Maximum wiper current	15 mA for 1 min			
Recommended load impedance	≥ 100 R _n			

MECHANICAL SPECIFICATIONS				
PARAMETER				
Mechanical rotation	240° ± 3°			
Lever return torque at start of travel	≥ 1.5 N cm			
Lever return torque at end of travel	≤ 7.5 N cm			
Stop strength	60 N cm			
Lever return	Clockwise			
Protection class	IP 66			
Mounting screw tightening torque	2.3 N m maximum			

PERFORMANCE	
PARAMETER	
Operating temperature range	-40 °C to +125 °C
Storage temperature range	-55 °C to +135 °C
Vibrations	Severity 10 Hz to 2000 Hz, 10 mm or 50 g
Life	5M cycles (on TET)
Micro-movements (dither stroke)	> 50M cycles

Note

Nothing stated herein shall be construed as a guarantee of quality or durability.

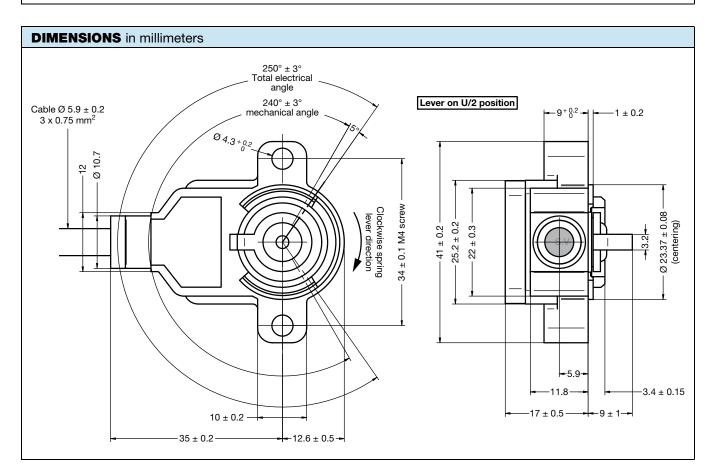
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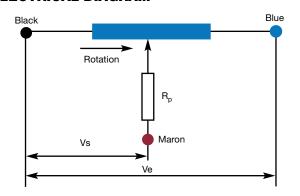
SAP PART NUMBERING GUIDELINES - PMR416								
MODEL	TYPE	LEVER TYPE	VALUE	ANGLE	LEADS	PACKAGING		
PMR4	06 = cable output	C = lever C	402 = 4K0	250	A = cable	C = 20 pcs G = 100 pcs P = 500 pcs		

CONNECTIONS

 $5.9 \text{ mm} \pm 0.2 \text{ mm}$ diameter cable outputs, $3 \times 0.75 \text{ mm}^2$, length 500 mm



ELECTRICAL DIAGRAM



OPTIONS (on request)

- Other electrical travel
- Other total resistance
- · Other linearity
- No protection resistance (Rp)
- Specific connections
- Other lever



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