

Displacement Sensor, Ultra Flat



QUICK REFERENCE DATA				
Sensor type	LINEAR or ROTATIONAL, conductive plastic			
Output type	Output by wires or connector			

Avionics

4 mm (thickness max.)

FEATURES

- Sealed
- Infinite resolution
- High integration capacity

Durability

Rectilinear: PMA typeCircular: PMC type



ELECTRICAL SPECIFICATIONS			
PARAMETER	PMA	PMC	
Total resistance (R _n)	4.7 k	Ω	
Tolerance on R _n	± 20	%	
Dissipation	≤ 0.1 W/cm of travel ⁽¹⁾	≤ 1 W to 70 °C	
Theoretical electrical travel (TET)	20 mm to 250 mm ⁽¹⁾	270°	
Tolerance on TET	± 1 mm	± 3°	
Total electrical travel	TET + 4 mm	310°	
Linearity	± 2 %	± 1.5 %	
Temperature coefficient	-300 ppm/°C ± 300 ppm/°C		
Collector / track current (I _c)	≤ 1 mA		
Recommended current I _c	≤ 100 µA		
Recommended load impedance	≥ 100 R _n		
Output smoothness	< 0.1 % (NFC 93 255)		

Note

Market appliance

Dimensions

(1) See "Specific PMA Characteristics" table

MECHANICAL SPECIFICATIONS			
PARAMETER	PMA PMC		
Design	Flexible insulating films Flexible insulating fi		
Mechanical travel	= Total electrical travel	= Total electrical travel (customer stops)	
Backlash	< 0.1 mm	< 0.3°	
Mounting	With double-sided adhesive on flat, clean, and dry support ≤ 1.5 m/s		
Speed displacement			
Drive	Torque ≥ 0.3 N	Torque ≥ 1 N cm	
Protection class (NFC 20 010)	IP 66		
Maximum alignment fault	± 1 mm	-	

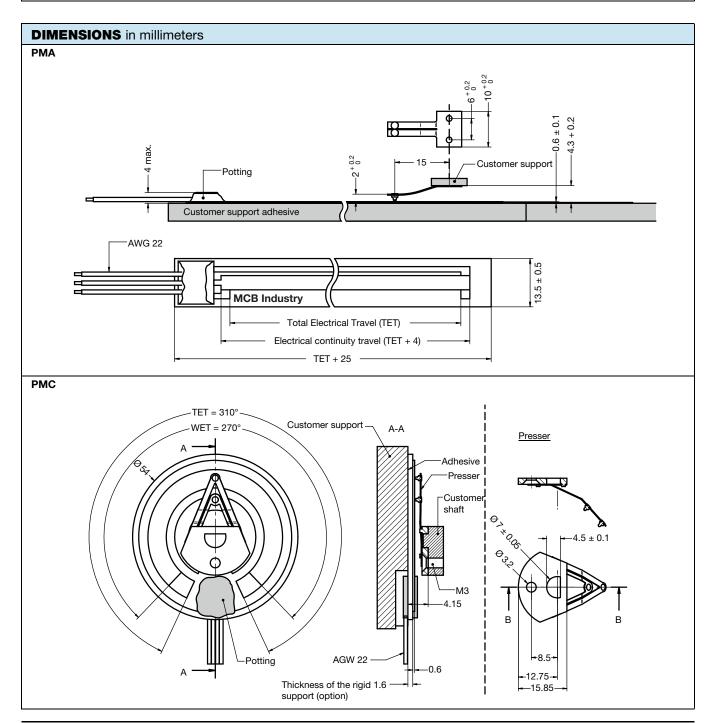
PERFORMANCE			
PARAMETER	PMA	PMC	
Life	25M operations for TET < 200 mm	> 10M cycles	
Life	15M operations for TET ≥ 200 mm		
Operating temperature range	-30 °C to +80 °C		
Storage temperature range	-40 °C to +90 °C		
Support	Flat, clean, and dry		



ORDERING INFORMATION / DESCRIPTION			
PMA	250	Α	******
SENSOR TYPE (PMA or PMC)	USABLE ELECTRICAL TRAVEL (PMA only)	SPECIAL PRESSER (Optional)	SPECIAL FEATURE (Plain language)

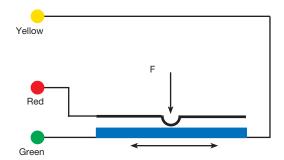
CONNECTIONS

3 x AWG 22 color wires length 300 mm





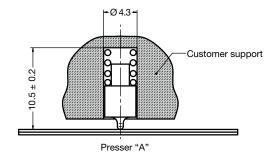
ELECTRICAL DIAGRAM



The voltage varies according to the position of the presser on the deformable membrane.

OPTIONS (on request)

· Other presser

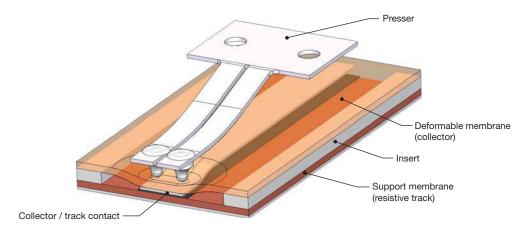


SPECIFIC VERSIONS (on request)

- Other electrical or mechanical characteristics
- Other bases
- Integration in equipment
- Other versions: outdoor design, ...
- Integration in equipment (flat flex cable, contacts, connector, ...)

SPECIFIC PMA CHARAC	SPECIFIC PMA CHARACTERISTICS			
THEORETICAL ELECTRICAL TRAVEL (TET) (mm)	DISSIPATION AT +40 °C (W)	TOTAL ELECTRICAL TRAVEL (mm)	FILM LENGTH (mm)	
50	≤ 0.5	54	75	
100	≤ 1.0	104	125	
150	≤ 1.5	154	175	
200	≤ 2.0	204	225	
250	≤ 2.5	254	275	

OPERATING DESCRIPTION



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