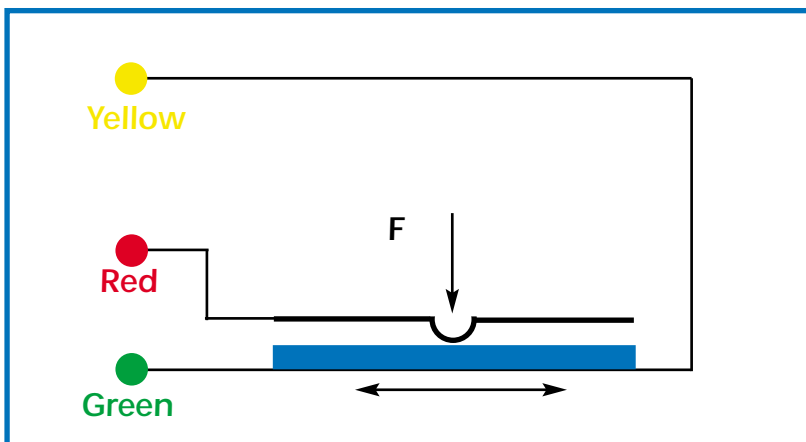
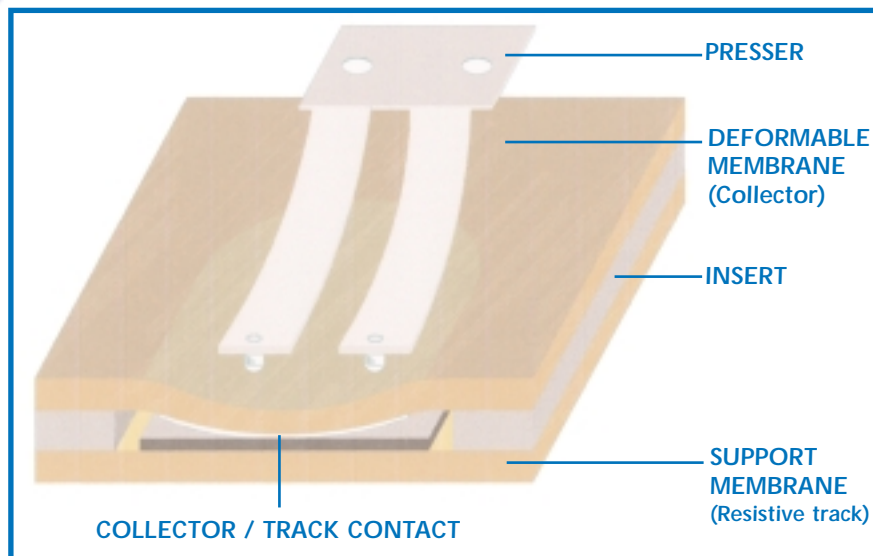




ANALOG MEMBRANE DISPLACEMENT SENSORS

- Sealed
- Infinite resolution
- High integration capacity
- Durability
- Rectilinear : PMA type
- Circular : PMC type

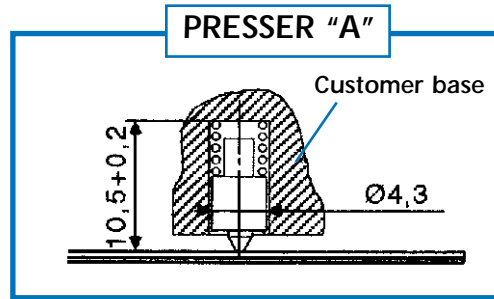
OPERATING DESCRIPTION



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

OPTIONS (consult us)

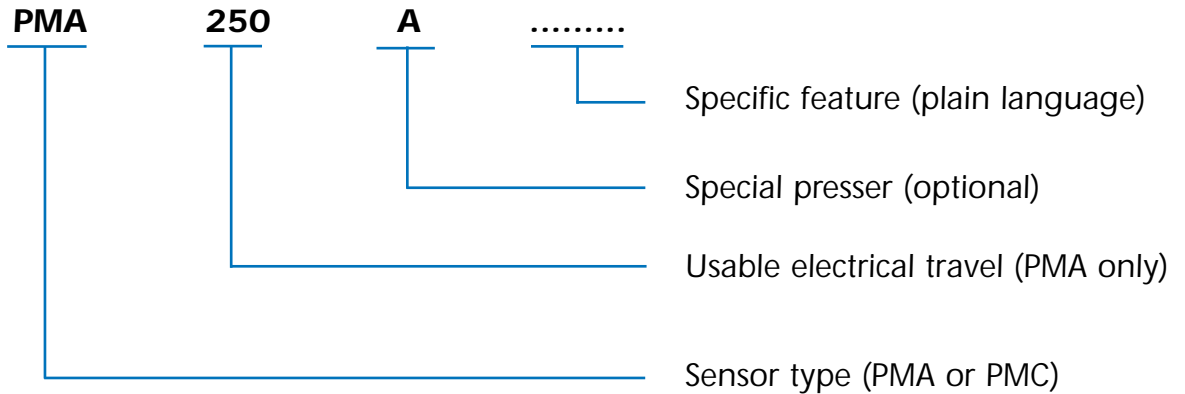
- Other presser

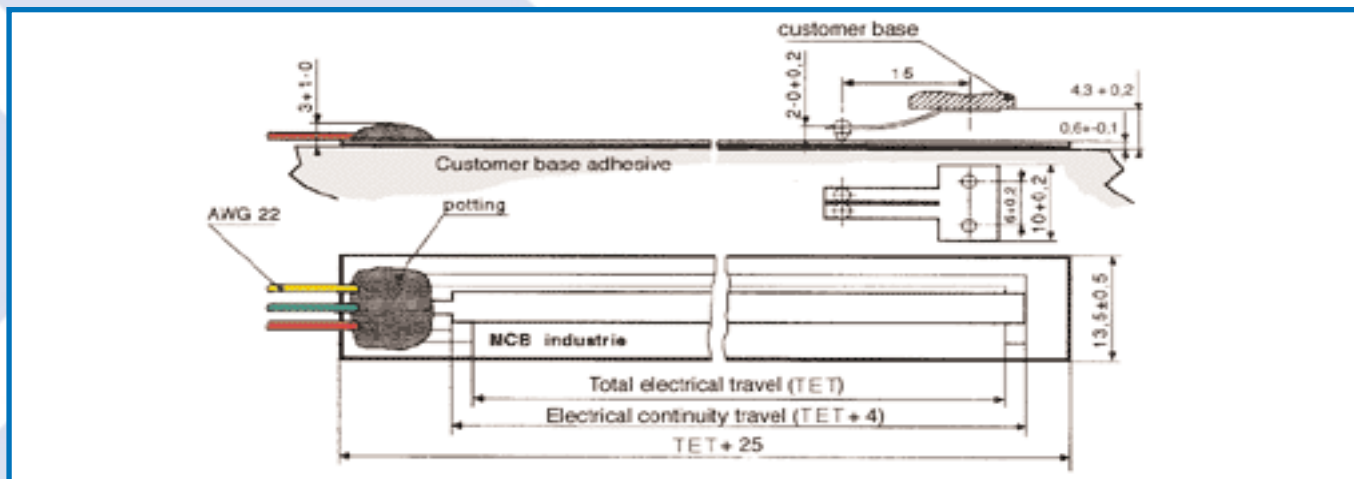
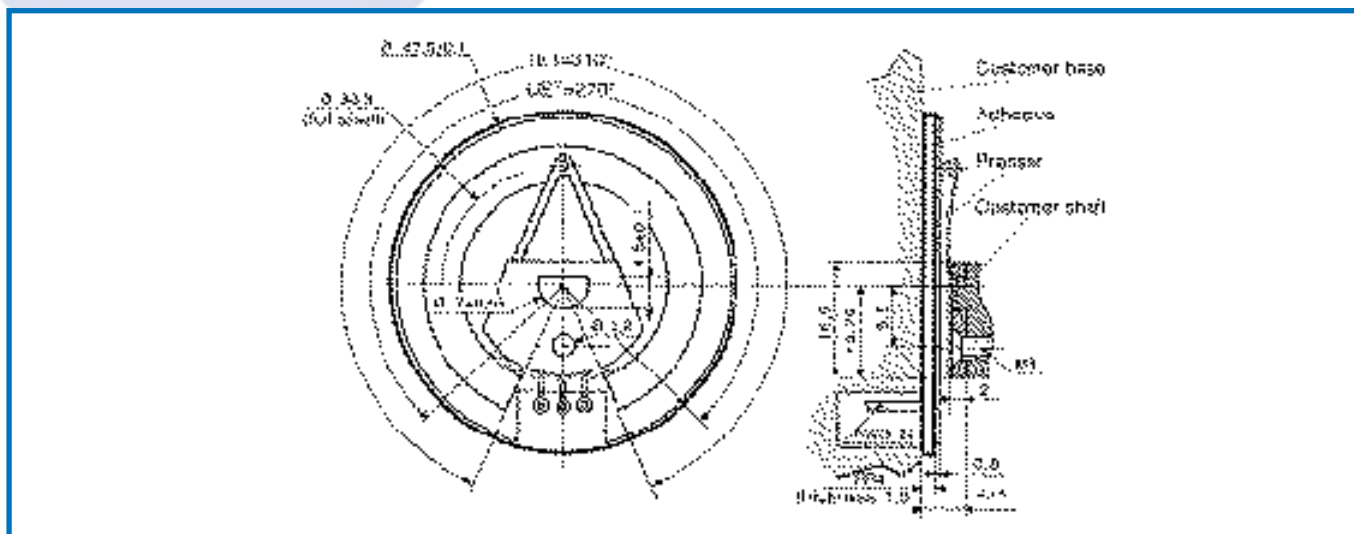


SPECIFIC VERSIONS (consult us for study)

- Other electrical or mechanical characteristics
- Other bases
- Integration in equipment

HOW TO MAKE OUT YOUR ORDER



PMA DIMENSIONS

PMC DIMENSIONS

ELECTRICAL CHARACTERISTICS

TYPE	PMA	PMC
Total resistance (Rn) Tolerance on Rn	4,7 kΩ ± 20%	
Dissipation	≤ 0,1 W / cm of travel*	≤ 1 W to + 70°C
Theoretical electrical travel (TET) Tolerance on TET	50 to 250 mm* ± 1 mm	270° ± 3°
Total electrical travel Linearity	TET + 4 mm ± 2 %	310° ± 1,5 %
Temperature coefficient of resistance	-300 ± 300.10 ⁶ / °C	
Collector/track current (Ic)	≤ 1mA	
Recommended current Ic	≤ 100 μA	
Recommended load impedance	≥ 100 Rn	
Output smoothness	< 0,1 % (NFC 93 255)	

*See "Specific PMA characteristics" table

MECHANICAL CHARACTERISTICS

TYPE	PMA	PMC
Design Mechanical travel Backlash	Flexible insulating films = Total electrical travel < 0.1 mm	Flexible insulating films on FR4 substrate = Total electrical travel (customer stops) < 0.3°
Connection Mounting Displacement speed	3 x AWG 22 colour wires length 300 mm With double-sided adhesive on flat, clean and dry base ≤ 1.5 m/s	
Drive	Torque ≥ 0,3 N	Torque ≥ 1 N.cm
Max. alignment fault	± 1 mm	

ENVIRONMENT

TYPE	PMA	PMC
Life	25.10 ⁶ operations for TET < 200 mm 15.10 ⁶ operations for TET ≥ 200 mm	> 10.10 ⁶ cycles
Temperature range operating storage Protection index (NFC 20 010) Base	- 30°C to + 80°C - 40°C to + 90°C IP 66 flat, clean and dry	

SPECIFIC PMA CHARACTERISTICS

TET (mm)	Dissipation at + 40°C	Total Electrical Travel (mm)	Film length (mm)
50	≤ 0,5 W	54	75
100	≤ 1 W	104	125
150	≤ 1,5 W	154	175
200	≤ 2 W	204	225
250	≤ 2,5 W	254	275