

## MINIATURE LVDT : SX9 W3 SERIES

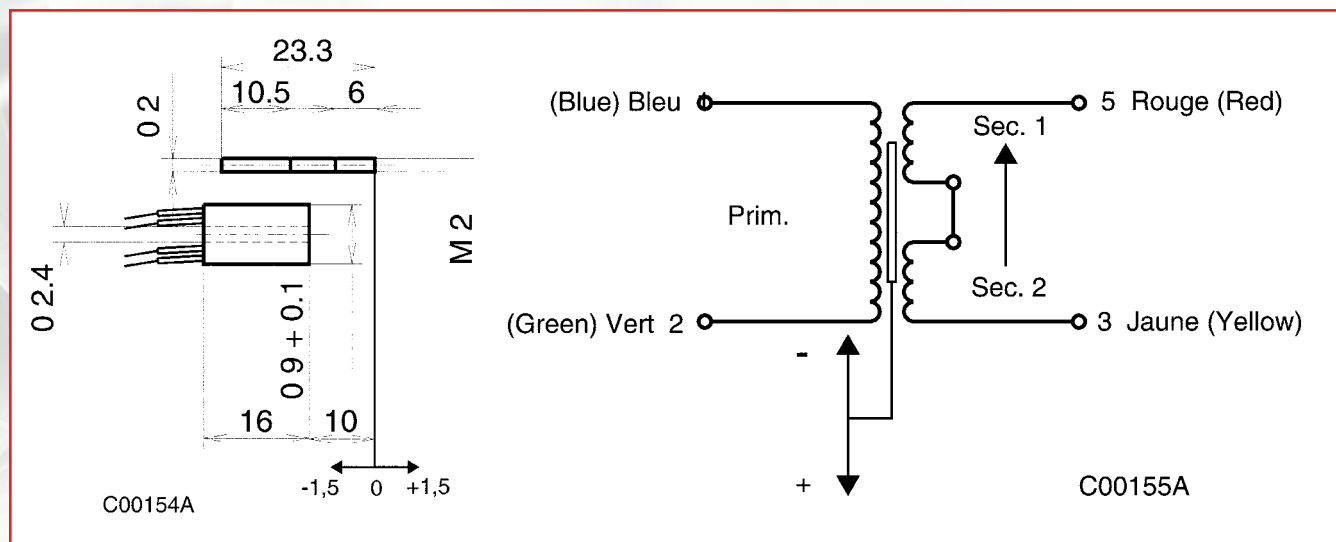


### GENERAL SPECIFICATIONS (AT 25°C)

Nominal stroke	± 1.5 mm
Excitation voltage	2.2 Vrms nominal (6 V peak to peak)
Excitation frequency	400 Hz to 15 kHz (3500 Hz nominal)
Linearity	≤ ± 0.25% FSO (± 0.1% FSO optional)
Resolution and hysteresis	non detectable
Residual noise	≤ 0.5% FSO
Temperature range	- 40 to + 125 °C
Thermal sensitivity drift	≤ 500 ppm/°C (300 ppm/°C optional)
Shock resistance	1000 G / 5 ms
Vibration resistance	20 G peak to peak 2 KHz
Dielectric strength	500 V dc / 1 mn
Insulation resistance	≥ 1 MOhm
Protection class	IP 65
GAM T1 approval	

### INTERFACE DRAWING

- Output: 4 ETFE insulated wires, gauge 30, 1 m long.
- Body: 9 mm diameter, nickel plated, weight = 8 g.
- Core rod: 2 mm dia 316 L shaft ending with a M2 threaded end, weight = 5 g.



## ELECTRICAL SPECIFICATIONS MEASURED AT 3500 HZ / 2,2 VRMS / 23°C)

Nominal stroke (mm)		± 1,5
Linearity (% FSO)		± 0,25
Sensitivity (mV/V/mm) ± 5 %		195
Impedances	Primary	430
	Secondary	500
Phases Prim./Sec. (degrees)		< 8

## OPTIONS

**L** : Linearity  $\leq \pm 0,1$  % FSO

**T** : Thermal sensitivity drift  $\leq 300$  ppm/°C.

**M** : L + T combined options.

A test sheet is delivered for L and M option.

## SELECTION GUIDE

**SX9 W3**      **X**  
 \_\_\_\_\_ Option (**L, T, M**)

## ACCESSORIES

- Spare core assembly.
- Mounting flange (see accessories chapter).
- Special calibration.
- Special core assembly.