

Sensorex®

Rugged LVDT with guide & swivel joints CER



Meggitt (Sensorex) CER consists of a LVDT mounted within a sealed housing with a shaft bearing. Either end can be fixed with a ball-and-socket joint.

The unit is made from stainless steel and is classed IP67.

CER sensor is particularly rugged and is designed for severe environment applications.

This sensor is an AC/AC LVDT; it shall be used with a conditioning unit model SX3120, SX9130...

All our signal conditioners are detailed in chapter “electronic conditioners”.

Characteristics

- Rugged (integration of Ø12mm sensor in Ø20mm housing)
- Very high reliability, excellent repeatability
- Ball-and-sockets at each extremity
- Protection IP67
- Delivered with a 15 meter cable

Applications

- Valve position measurement
- Servo-actuator position feedback
- Fire system remote control
- Steam turbine servo-valve control
- Vapocracker valve control

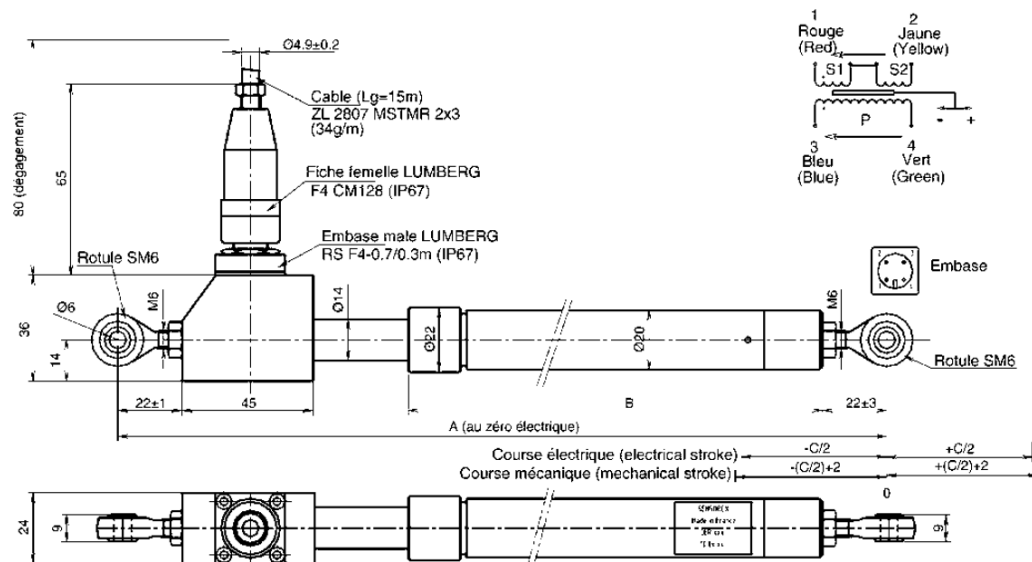
Meggitt Sensing Systems

Our measurement product competencies:
LVDTs | Inertial systems | Inclometers | Accelerometers | IMU |
MEMS sensors | Servo-inclinometer | Conditioners

MEGGITT
smart engineering for
extreme environments

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Contact

Meggitt (Sensorex)

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www.sensorex.fr

www.meggitt.com

Dimensions

Strokes	A nominal (mm)	B ±0.5 (mm)
±3mm	222	128
±5mm	231	135
±10mm	247	146
±20mm	284	173
±30mm	314	193
±50mm	375	234
±75mm	449	283
±100mm	529	338
±125mm	614	398
±150mm	691	450

Environmental characteristics

Operating temperature	-40°C / +80°C
Protection	IP 67

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General specifications at +25°C

Nominal electrical stroke	±3mm to ±150mm
Primary supply voltage	2.2Vrms nominal
Frequency	3500 Hz nominal
Maximum consumption	≤10mW
Non linearity error	≤ 0.3% of Full Scale
Zero null voltage	≤ 0.5% of Full Scale
Sensitivity thermal drift	≤ 500ppm/°C
Friction	2daN typical
Maximum speed	5m/s

Electrical characteristics at +23°C

Nominal electrical stroke (mm)	±3	±5	±10	±20	±30	±50	±75	±100	±125	±150
Sensitivity (mV/V/mm)±5%	60	56	39	19	9	9	9	7.2	3.7	4.4

Selection guide

Nominal electrical stroke (mm)	Product reference
±3mm	690100233
±5mm	690100234
±10mm	690100235
±20mm	690100202
±30mm	690100236
±50mm	690100232
±75mm	690100237
±100mm	690100172
±125mm	690100238
±150mm	690100239

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