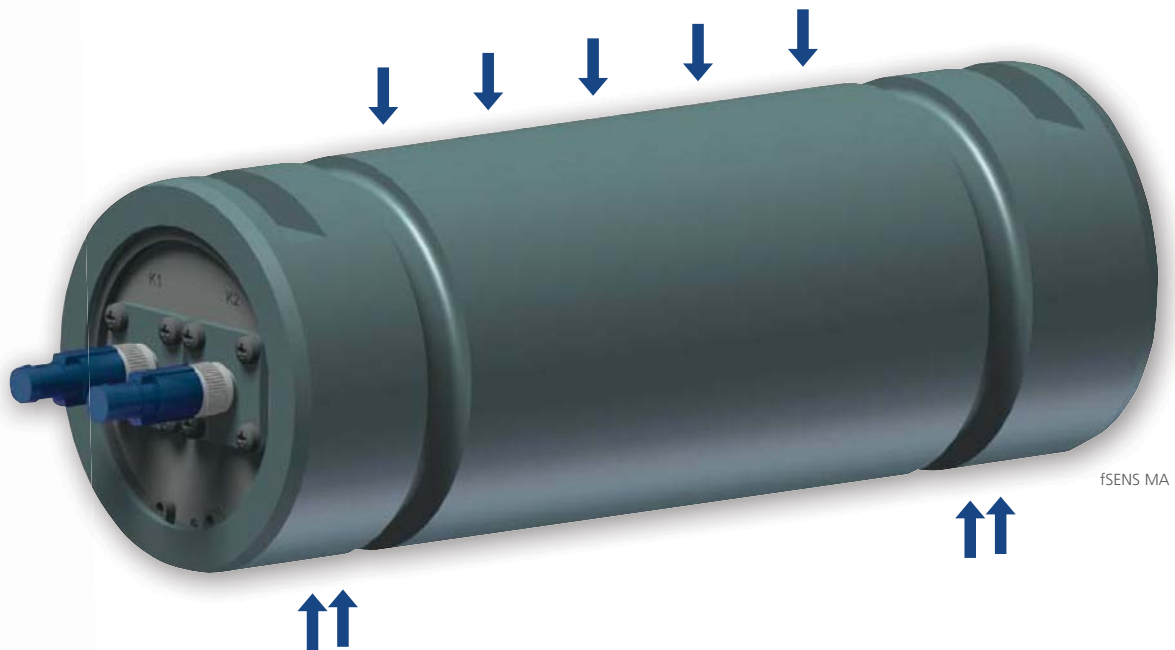


fSENS MA – Load Pins



Flexible & Configurable Load Pins



Hirschmann MCS develops, produces, and supplies load pins for any range of force:

- Range of interfaces
- Produced to customer-specific geometries and dimensions
- Optional details such as grease holes with grease fittings and DIN 15058-compliant axle holders
- Shear forces sensed by a Wheatstone bridge system of strain gauges
- Can be installed in place of normal shafts such as axles of sheaves, shackles, etc.
- Output signal proportional to the load

Technical Specifications

Description	fSENS MA
Temperature range	-40°C to +80°C***
Protection class	IP66/67 (IEC60529)
Operating voltage	10 to 30 V
Current consumption	< 50 mA (incl. amplifier)
Output signal	4...20 mA, CANopen, 2.5 to 7.5 V DC
Temperature drift	0.1 %/10°K
Linearity* (typical)	< 1 % FS
Hysteresis* (typical)	< 1 % FS
Connector*	M12 or CANNON
Sensor material	Stainless steel (chromium ratio > 12 %)
Preload*	150 % of nominal load
Safety margin against yielding*	> 200 % (300 % of nominal load)
Safety margin against breakage**	> 350 % (500 % of nominal load)
Support apertures	Axle holder and grease fittings

* Other values and types are available on request

** Depending on material

*** Surface temperature