






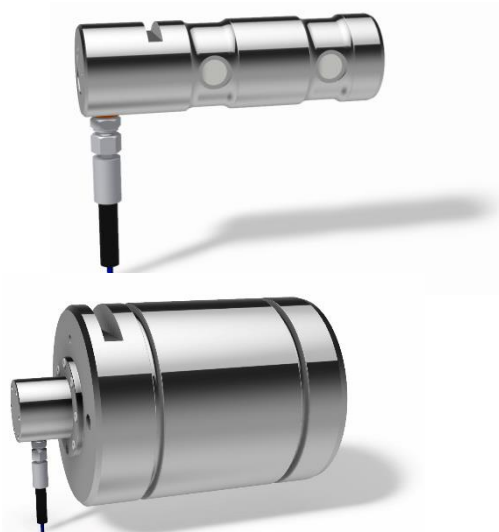
Title:	OEM, SP		
Doc name:	DS-0228	Revision:	A

## OEM Shear Pin Load Cell

### LS-3410-SP Series

*Robust designs manufactured specifically for use in harsh and challenging environments offshore, such as platforms, ships, rigs and drilling applications.*

-  **Redundant signal with dual electronics**
-  **Range up to 1200 metric tons**
-  **IP68, Submersible upon request**
-  **Ex ia IIC T4 , ATEX and IEC approved**
-  **Stainless Steel**








The LS-3410-SP is a well proven 4-20mA output Shear pin Transmitter with fast response time, high accuracy and long life time performance in harsh and hazardous environments.

More than 1000 custom designed version are stored in our database. Huge flexibility in design and a long record of field proven solutions has made these sensors popular among customers in the gas and oil industry. The sensor is digitally calibrated with an analogue 4-20mA output signal in a two conductor configuration.

The electronics are molded and encapsulated inside the sensor, proven to be the best solution for EMC, potential leakage and long lifetime performance.

#### Typical Applications are:

-  Offshore Drilling
-  Offshore Production
-  Cranes
-  Winches
-  Mooring systems

[www.scansense.no](http://www.scansense.no)



## Technical information

<b>Full scale load</b>	0 - 5T... 1200T
<b>Maximum load at 20°C (Test Load)</b>	0T ... 25T Full scale range x 2 25T ... 180T Full scale range x 2 to x 1.33 180T ... 1200T Full scale range x 1.33
<b>Temperature Range</b>	-45°C to 80°C
<b>Linearity</b>	± 0.5% of full scale
<b>Total accuracy at ambient temperature:</b>	± 1% of full scale
<b>TCS (Thermal Compensated Sensitivity)</b>	Typical 0.03% full scale x (temp. - amb)
<b>Output Current</b>	4-20mA, Current Loop
<b>Supply Voltage</b>	12-28 VDC
<b>Electrical connection</b>	2 wire
<b>Response time</b>	Min.13ms
<b>Power supply regulation</b>	Yes
<b>Voltage Spike Protection</b>	Yes
<b>Polarity protection</b>	Yes
<b>Insulation test</b>	50 V DC (RMS) > 1GΩ
<b>Sealing</b>	IP68 / Submersible upon request
<b>Material</b>	Stainless steel
<b>Intrinsic Safe Code</b>	Ex ia IIC T4 Ga -45°C < Tamb < Ta: 80°C Ex ia IIIC T102°C Da

*Note: Due to continuous product improvement, published specifications may change without notice.*

## Electrical connections

### Cable:

- ✓ Hydraulic hose protected cable for tough environments
- ✓ Cable BFOU(i)
- ✓ Cable ÖLFLEX
- ✓ Cable MOR Polyrad
- ✓ Cable Subsea

### Connector

- ✓ Gisma (titanium)
- ✓ Souriau (brass)
- ✓ Souriau (nickel-chrome coated brass)
- ✓ Glenair (stainless steel)

[www.scansense.no](http://www.scansense.no)

