

ATEX / IECEX Load Pin

The ATEX / IECEX load pin cements DLM's place as world leader in the supply of load pins and has been designed specifically for the rugged Oil and Gas industry, along with environments that contain flammable gas.

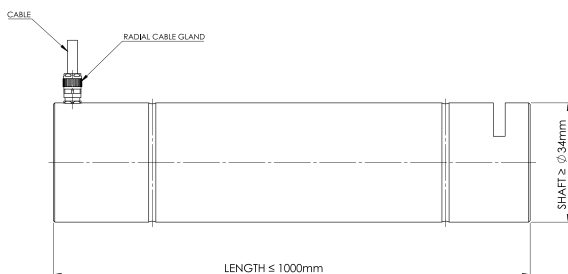
Suitable for use in Zone 1 and Zone 2 Hazardous areas, the load pin is certified using the Flame Proof Exd concept which allows design flexibility for internal signal conditioners and also negates the need to have additional barriers, taking the signal into the safe area.

Manufactured from high tensile stainless steel, the load pin can have an array of electrical outputs and can be mechanically designed to meet client's requirements.

DLM can custom design ATEX load pins for use in a wide variety of applications with sizes to suit clients exacting requirements.

Dimensional Data

The ATEX certification of the load pin designates the maximum and minimum allowable sizes of the shaft as detailed below. Adhering to these dimensions the load pin can be custom designed to suit



Specification

Load Cell material	17-4PH H1150 + 1150 stainless steel Certs to 3.1 as standard, 3.2 on request
WLL range	Up to 2000 Tonne (higher capacities available upon request)
Proof load:	150% of SWL
Safety factor:	Minimum of 5:1
Bridge resistance:	350 - 1000 ohms
Accuracy:	<1.0% FS
Zero temperature coefficient:	< $\pm 0.05\%$ of SWL/ $^{\circ}\text{C}$
Span temperature coefficient:	< $\pm 0.05\%$ of SWL/ $^{\circ}\text{C}$
Operating temperature:	-20 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$
Output options:	mV output / 4-20mA 3 wire amplifier / 4-20mA 2 wire amplifier / RS485 signal conditioner
Input voltage:	10V excitation for mV output pin / 12-24VDC for internal amplifier/signal conditioner
Cable type:	Screened and armoured 1 quad x 0.75mm ² IEC60331
Connection options:	Cable Gland / ATEX/IECEX connector
Degree of protection:	IP68 with cable gland connection or instrumEx connector.
Locking and fixing options:	Keeper slot and lock plate / Anti rotation bracket / Thread and nut with split pin
ATEX/IECEX approved to:	Ex II 2G / Ex d IIC Gb T6 Amb -20 $^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$
ATEX certificate number:	ITS15ATEX18207X
IECEX certificate number:	IECEX ITS 15.0007X
Documentation provided:	Supplied with calibration, proof load and test certificates to BS EN ISO 7500-1:2018 and material certification to 3.1 or 3.2 upon request. ATEX/IECEX installation Instructions / User manual / ATEX/IECEX certificates



Features:

- Exd design
- Flexibility of outputs through mounting of internal signal conditioners
- Cable gland or connector connection options

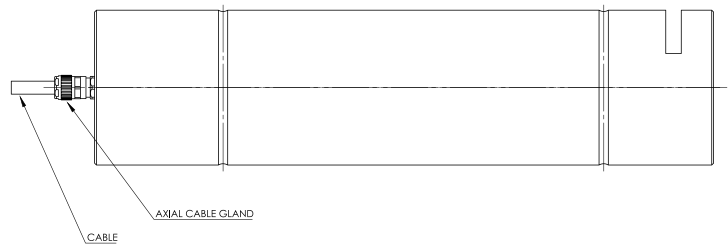
Applications:

- Supplying as original equipment in offshore equipment
- Quick release mooring hooks
- Mooring and FPSO Load monitoring
- Installations in cranes
- Winches
- Sheave blocks
- Cable tensioners
- Pipe lay applications

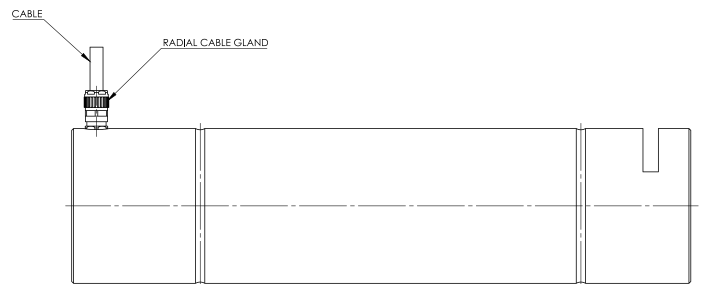
ATEX / IECEx Load Pin

Custom Load Pin design options

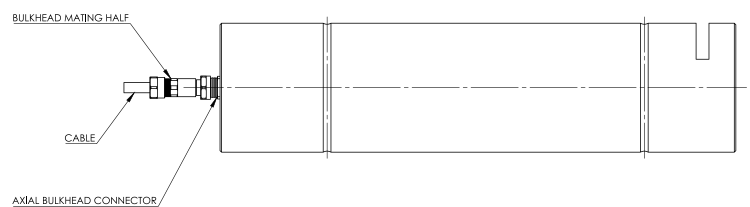
Axial Cable Gland Entry



Radial Cable Gland Entry



Axial Bulkhead Mount Connector



Axial Panel Mount Connector

