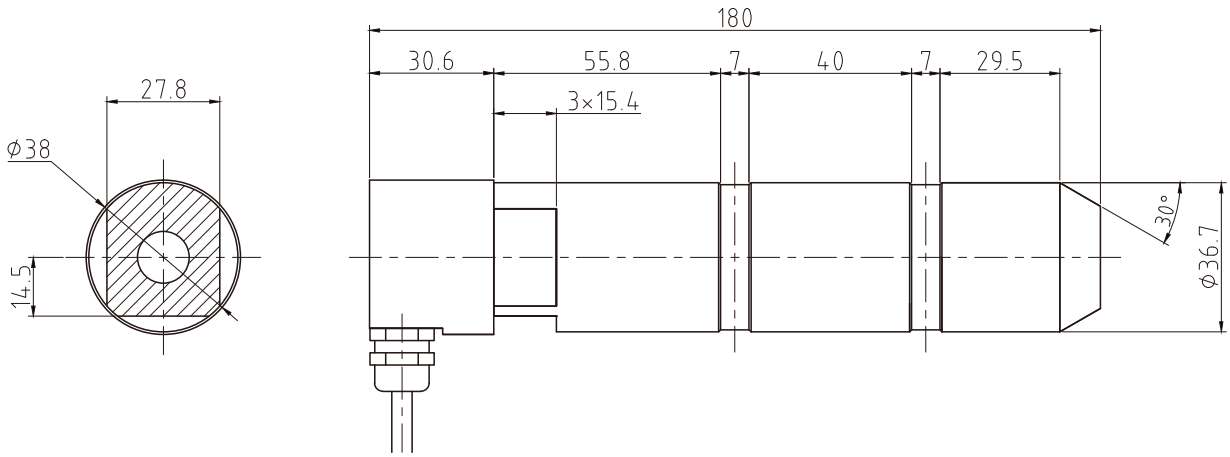
Key feature:

- Material: Stainless steel
- Rated Capacities: 90KN
- Through-hole to accommodate strain gauge
- IP Rating: IP69K
- Suitable for force measurement device and safety controlling against overload
- Excellent sealing performance.

Product description:

LP510S is a special double ended shear beam load cell. Its sharp is pin and it's with throughout-hole to accommodate strain gauge instead of typical side 4pcs cavities which improve sealing performance significantly and not easy damaged in harsh environment.

Dimensions (in mm& lb):



LP510S Load Cell Specifications

Parameter		Units	Specification
Model No.			LP510S
Rated capacity (Emax)		kN	90kN
Min. dead load		kg	0
Rated output		mV/V	1.0 ± 0.5%
Zero balance		% of Emax	± 1
Combined error[1)2)]		% of Emax	< ± 0.5
Repeatability error		% of AL[3)]	< ± 0.3
Creep; 30 minute		% of AL	< ± 0.1
Min. dead load output return (DR); 30 min		% of AL	< ± 0.1
Temp. effect on	Min. dead load output	% of Emax/°C	< ± 0.005
	Rated output[2)]	% of AL/°C	< ± 0.01
Temperature range	Compensated	°C(°F)	-10 to +40 [+14 to +104]
	Operating		-30 to +65 [-22 to +149]
	Safe storage		-40 to +80 [-40 to +176]
Excitation voltage	Recommended	V AC/DC	5 ~ 15
	Maximum		20
Terminal resistance	Excitation	Ω	382 ± 10
	Output		350 ± 3
Insulation resistance @50VDC		MΩ	>5000
Breakdown voltage		V AC	>500
Seal type / IP rating			Hermetically welded / IP68
Load limit	Safe	% of Emax	300
	Ultimate		500
Material	Spring element		Stainless steel
	Cable		Φ6; 4-wire; PVC
Cable length		m	3.0
Weight; approx		kg	1.6
Fatigue life		cycles @Emax	>1,000,000
Deflection at Emax; approx		mm	<0.5

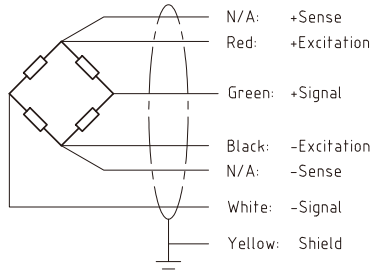
Notes:

[1)] Error due to the combined effect of non-linearity and hysteresis

[2)] The sum of errors due to Temperature Effect on Output comply with the requirements of OIML R60 and NIST HB44

[3)] AL = Applied Load

Cable Colour Code: 4-wire [Optional: 6-wire]



Shield connected to load cell body