

# BOLT SENSORS WITH MOUNTING WASHERS

## LCM900 Series

### Compression

0-10,000 N to

0-500,000 kN

1 Newton = 0.2248 lb

1 daNewton = 10 Newtons

1 lb = 454 g

1 t = 1000 kg = 2204 lb

Starts at  
**£194**



OMEGA's LCM900 Series bolt force sensors are compression load cells designed to measure the clamping force of a bolt. With excellent long-term stability and all stainless steel construction, the LCM900 Series delivers high reliability in severe industrial environments. These units are designed to operate by mounting on a flat surface between 2 mounting washers (included).

### SPECIFICATIONS

**Excitation:** 5 Vdc (10V max)

**Output:** 2 mV/V nominal

**Accuracy:** ±3.5% FSO (linearity, hysteresis and repeatability combined)

**Zero Balance:** ±4% FSO

**Operating Temp Range:**

-54 to 93°C

**Compensated Temp Range:**

16 to 71°C

**Thermal Effects:**

**Zero:** ±0.018% FSO/°C

**Span:** ±0.036% of rdg/°C

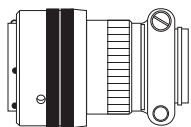
**Safe Overload:** 130% of capacity

**Ultimate Overload:** 150% of capacity

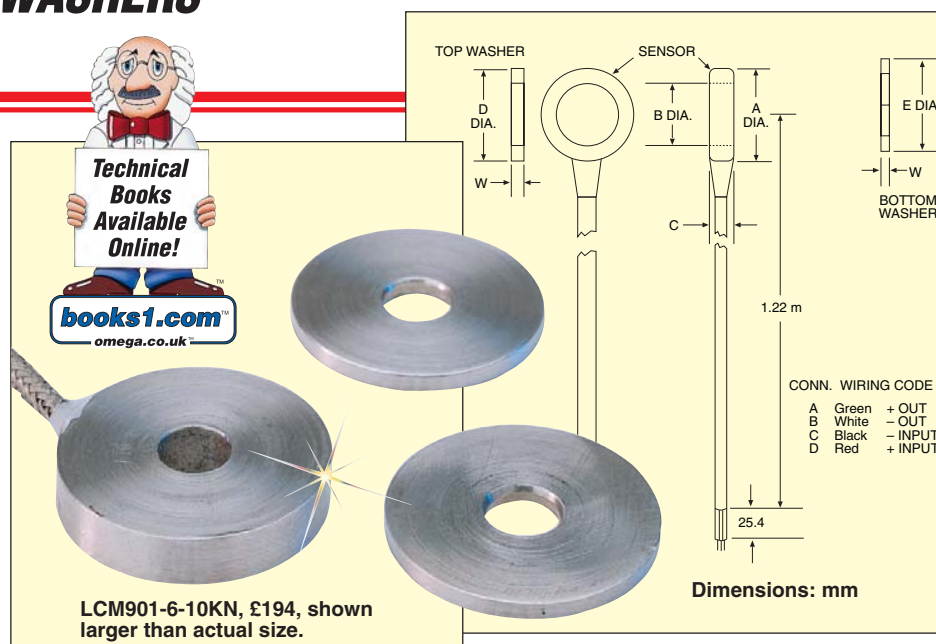
**Bridge Resistance:** 120 Ω nominal

**Construction:** Stainless steel

**Electrical Connection:** 1.2 m insulated screened cable



**Mating Connector  
PT01F10-6P  
£16.50**



### Dimensions: mm

SIZE	CAPACITY N	BOLT SENSOR			WASHERS		
		A	B	C	D	E	W
6 mm	10,000	25.4	6.76	4.75	19.1	25.4	1.57
6 mm	20,000	25.4	6.76	4.75	19.1	25.4	1.57
10 mm	50,000	19.1	10.1	4.75	16.7	19.1	1.57
13 mm	130,000	25.4	13.1	6.35	21.4	25.4	1.98
16 mm	200,000	28.6	16.4	6.35	24.6	28.6	1.98
19 mm	300,000	38.1	19.6	9.53	30.9	38.1	2.36
38 mm	500,000	66.7	38.9	22.2	63.5	66.7	3.18

### MOST POPULAR MODELS HIGHLIGHTED!

#### To Order (Specify Model Number)

BOLT (mm)	CAPACITY		MODEL NO.	PRICE	COMPATIBLE METERS**
	N	lb			
LCM901 Series—Stripped Ends on Cable					
6	10,000	2248	LCM901-6-10KN	£194	DPiS, DP41-B, DP25B-S
6	20,000	4496	LCM901-6-20KN	194	DPiS, DP41-B, DP25B-S
10	50,000	11,240	LCM901-10-50KN	194	DPiS, DP41-B, DP25B-S
13	130,000	29,225	LCM901-13-130KN	208	DPiS, DP41-B, DP25B-S
16	200,000	44,962	LCM901-16-200KN	228	DPiS, DP41-B, DP25B-S
19	300,000	67,443	LCM901-19-300KN	261	DPiS, DP41-B, DP25B-S*
38	500,000	112,405	LCM901-38-500KN	285	DPiS, DP41-B, DP25B-S*
LCM911 Series—with PT06A-10-6S Connector Installed on Cable					
13	130,000	29,225	LCM911-13-130KN	224	DPiS, DP41-B, DP25B-S
16	200,000	44,962	LCM911-16-200KN	245	DPiS, DP41-B, DP25B-S
19	300,000	67,443	LCM911-19-300KN	278	DPiS, DP41-B, DP25B-S*

Comes with 2-point traceable calibration.

\* 4-digit meter, counts to 9999.

\*\* See page 291 for compatible meters.

**Ordering Examples:** LCM901-10-50KN, 50 kN capacity bolt sensor for 10 mm bolt, with stripped ends on the leads, £194. LCM911-13-130KN, 130 kN capacity bolt sensor for 13 mm bolt with a connector installed on the cable, £224. PT01F10-6P, mating connector (not included), £16.50.

### ACCESSORY

MODEL NO.	PRICE	DESCRIPTION
OP-17	£10	Reference Book: Measure for Measure

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