







# VC3500 with LA3500

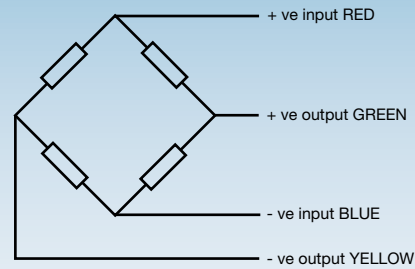
technical specification...



## VC3500 Load Cell

	Load cell specification	Units
<b>Load Cell Capacities</b>	2, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150, 200	tonnes (t)
<b>Full Load Output</b>	2.0	mV/V ± 0.25%
<b>Excitation - Recommended</b>	5 - 15	V
<b>Excitation - Maximum</b>	18	V
<b>Safe Service Load</b>	150	%*
<b>Ultimate Overload</b>	300	%*
<b>Combined Error</b>	< ± 0.03	%*
<b>Repeatability</b>	< ± 0.015	%*
<b>Output at Zero Load</b>	< ± 2.0	%*
<b>Input Resistance</b>	785	Ω ± 20
<b>Output Resistance</b>	705	Ω ± 5
<b>Operational Temperature Range</b>	-50 to +80	°C
<b>Compensated Temperature Range</b>	-10 to +40	°C
<b>Temperature Coefficient on Zero</b>	< ± 0.002	%* / °C
<b>Temperature Coefficient on Span</b>	< ± 0.0012	%* / °C
<b>Environmental Protection</b>	IP68 and IP69K	
<b>Cable Length</b>	20	m
<b>Cable Material</b>	Polyurethane	
<b>Insulation</b>	>5000	MΩ @ 100V

\*All percentages are related to Full Rated Load



### Electrical Connections

Via 4 core, 6mm diameter, screened polyurethane cable (halogen-free).

Screen not connected electrically to load cell.

### Construction

#### Load cell VC3500

High strength stainless steel type 17-4PH

#### Mounting Assembly LA3500

##### • Zinc Plated Alloy Steel version (LA3500-\*\*\*\*-Z)

Upper & lower plates: alloy steel, durable zinc plated finish

Pins: corrosion resisting hardened stainless steel

Clips: plated alloy steel

##### • Galvanized alloy steel version (LA3500-\*\*\*\*-G)

Upper & lower plates: alloy steel, galvanized finish

Pins: corrosion resisting hardened stainless steel

Clips: plated alloy steel

##### • Stainless steel version (LA3500-\*\*\*\*-SS)

Upper & lower plates: stainless steel

Pins: corrosion resisting hardened stainless steel

Clips: stainless steel

## LA3500 Mounting Assembly

Loading limits for Zinc Plated and Galvanized Alloy Steel assemblies (with load cell installed)

Mounting Assembly	Load Cell Capacity (t)	Deflection at capacity (mm)	Allowable expansion across assembly (mm)	Maximum Vertical Load (kg)	Maximum End Load (kg)	Maximum Transverse Load (kg)	Maximum Lift-off (kg)
LA3500 - 20T	2	0.20	± 5	79538 <sup>Δ</sup>	10800	4000	3202
	5	0.20					
	7.5	0.25					
	10	0.25					
	15	0.30					
LA3500 - 50T	30	0.50	± 9	96873	28042	10910	18355
	50	0.50		132560			
LA3500 - 75T	75	0.80	± 9	173352	35690	8872	29572
LA3500 - 100T	100	0.80	± 12	263087	39260	11727	19885
LA3500 - 200T	150	0.90	± 12	538410 <sup>ΔΔ</sup>	87002	17285	61937
	200	0.90					

Loading limits are calculated according to Eurocode 3 (EN 1993). Limits for Stainless Steel assemblies (LA3500-\*\*\*\*-SS) are available on request.

<sup>Δ</sup>With 20t load cell installed <sup>ΔΔ</sup>With 200t load cell installed

## THAMES SIDE SENSORS LTD

Unit 10, io Trade Centre, Deacon Way, Reading, Berkshire RG30 6AZ, UK

tel: +44 (0) 118 941 1387

fax: +44 (0) 118 941 2004

sales@thames-side.co.uk

www.thames-side.com



Issue: VC3500.11.20

DISTRIBUTED BY:



Our policy is one of continuous product enhancement. We therefore reserve the right to incorporate technical modifications without prior notification.



www.thames-side.com

SKT CAL  
MB x S  
WASHER  
TORQUE



BASE PLATE

100

130

100

LOAD CELL MODEL 300



'A'

'B' CRS



'B' CRS



'B' CRS



'B' CRS



'B' CRS



'B' CRS



'B' CRS



'B' CRS



'B' CRS

70

90