

ASC COMPRESSION LOAD CELL



DESCRIPTION:

The ASC is a single column, stainless steel compression load cell

This product is suitable for use in road and rail weighbridges and process weighing applications.

The welded construction and built-in surge protection ensure that this product can be used successfully in harsh environments.

FEATURES:

- Self-aligning, stainless steel single column
- Hermetically sealed, IP66 and IP68
- Certified to OIML R60, **6000d**
- Built-in surge protection tubes (GDTs)
- Current calibration output (SC) ensures easy and accurate parallel connection of multiple load cells
- Digital version available (model DSC)
- **Capacities: 30, 40 and 50t**

ASC: SPECIFICATIONS

Capacity	E_{max}	t	30, 40, 50				
Accuracy Class According to OIML R60				C3	C4	C5	C6
Maximum Number of Verification Intervals	n_{ic}			3000	4000	5000	6000
Minimum Verification Interval ($v_{min} = E_{max}/Y$)	v_{min}		$E_{max}/6000$	$E_{max}/8000$	$E_{max}/10000$	$E_{max}/12000$	
Minimum Verification Interval, Type MR	v_{min}		$E_{max}/15000$	$E_{max}/16000$	$E_{max}/25000$	$E_{max}/30000$	
Accuracy Class According to Type Designation ¹			CC	C3	C4	C5	C6
Combined Error		%S	$\leq \pm 0.050$	$\leq \pm 0.023$	$\leq \pm 0.018$	$\leq \pm 0.014$	$\leq \pm 0.012$
Hysteresis		%S	$\leq \pm 0.050$	$\leq \pm 0.017$	$\leq \pm 0.013$	$\leq \pm 0.010$	$\leq \pm 0.008$
Minimum Dead Load Output Return	MDLOR	%S	$\leq \pm 0.050$	$\leq \pm 0.017$	$\leq \pm 0.013$	$\leq \pm 0.010$	$\leq \pm 0.008$
Minimum Dead Load Output Return, Type MI7.5	MDLOR	% S_{nom}		$\leq \pm 0.0067$	$\leq \pm 0.0067$	$\leq \pm 0.0067$	
Non-Repeatability	E_R	%S	$\leq \pm 0.070$	$\leq \pm 0.035$	$\leq \pm 0.026$	$\leq \pm 0.021$	$\leq \pm 0.018$
Creep Error (30 Minutes)		%S	$\leq \pm 0.060$	$\leq \pm 0.025$	$\leq \pm 0.018$	$\leq \pm 0.015$	$\leq \pm 0.012$
Creep Error (20-30 Minutes)		%S	$\leq \pm 0.0200$	$\leq \pm 0.0053$	$\leq \pm 0.0039$	$\leq \pm 0.0032$	$\leq \pm 0.0026$
Temp. Effect on Minimum Dead Load Output	TC_o	% $S_{nom}/5^\circ C$	$\leq \pm 0.0250$	$\leq \pm 0.0117$	$\leq \pm 0.0088$	$\leq \pm 0.0070$	$\leq \pm 0.0058$
Temp. Effect on Minimum Dead Load Output, Type MR	TC_o	% $S_{nom}/5^\circ C$		$\leq \pm 0.0047$	$\leq \pm 0.0044$	$\leq \pm 0.0028$	$\leq \pm 0.0023$
Temperature Effect on Sensitivity	TC_s	%S/ $5^\circ C$	$\leq \pm 0.0250$	$\leq \pm 0.0088$	$\leq \pm 0.0065$	$\leq \pm 0.0053$	$\leq \pm 0.0045$
Minimum Dead load	E_{min}	% E_{max}	0				
Safe Load Limit	E_{lim}	% E_{max}	150				
Ultimate Load	E_{ult}	% E_{max}	300				
Deflection at E_{max}		mm	0.50				
Excitation Voltage		V	5 ... 20				
Maximum Excitation Voltage		V	25				
Rated Output	S_{nom}	mV/V	2 ± 0.02				
Current Calibration	SC-version		Standard				
Zero Balance		% S_{nom}	$\leq \pm 1.0$				
Input Resistance	R_{in}	Ω	700 ± 35				
Output Resistance	R_{out}	Ω	700 ± 7				
Insulation Resistance	R_{ins}	M Ω	≥ 5000				
Compensated Temperature Range	T_{cps}	$^\circ C$	-10 ... +40				
Operating Temperature Range	T_{opr}	$^\circ C$	-40 ... +80				
Storage Temperature Range	T_{srg}	$^\circ C$	-40 ... +90				
Element Material			Stainless steel 1.4542				
Sealing (DIN 40.050 / EN 60.529)			IP66 and IP68				

1 The specified accuracies apply for the compensated temperature range.

SC-version: The rated output and the output resistance are balanced in such a way, that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

Correct mounting of the load cells is essential to ensure optimum performance.
Further information is available on request.

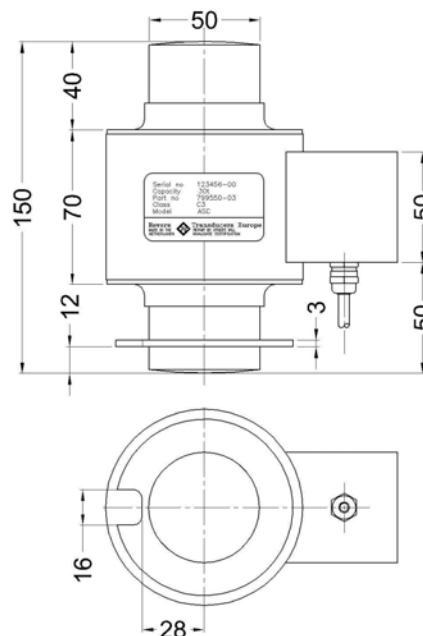
Cable specifications:

Cable length 20m

Excitation +	Green
Excitation -	Black
Output +	White
Output -	Red
Shield	Transparent

Shield is not connected to the load cell body.
All dimension tolerances according to ISO 2768m, unless otherwise specified.

Also available:
Self Aligning Set ASC and DSC
For more information:
Assembly Guideline 02/3-110/01.



All specifications subject to change without notice.

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