DSC SMART COMPRESSION LOAD CELL





DESCRIPTION:

The DSC, Digital Single Column, is a stainless steel compression load cell with a digital output.

This digital output enables the user to communicate with each DSC independently of the others in the system, thus offering advantages in system setup, system control, corner correction, fault finding and load cell replacement.

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:

- Digital output via RS485 or RS422 interface.
- Self-aligning, stainless steel single column.
- Hermetically sealed, IP66 and IP68
- Certified to OIML R60, 4000d
- Internal diagnostics
- · Internal lightning protection
- Maximum transmission distance 1200m
- Capacities: 30, 40 and 50t



DSC: SPECIFICATIONS

Capacity	E _{max}	t	30, 40, 50		
Accuracy Class According to OIML R60				C3	C4
Maximum Number of Verification Intervals	n _{lc}			3000	4000
Minimum Verification Interval (v _{min} = E _{max} /Y)	V _{min}			E _{max} /6000	E _{max} /8000
Minimum Verification Interval, Type MR	V _{min}			E _{max} /15000	E _{max} /20000
Accuracy Class According to Type Designation ¹			CC	C3	C4
Combined Error		%S	≤ ± 0.050	≤ ± 0.023	≤ ± 0.018
Hysteresis		%S	≤ ± 0.050	≤ ± 0.017	≤ ± 0.013
Minimum Dead Load Output Return	MDLOR	%S	≤ ± 0.050	≤ ± 0.017	≤ ± 0.013
Minimum Dead Load Output Return, Type MI7.5	MDLOR	%S _{nom}		≤ ± 0.0067	≤ ± 0.0067
Non-Repeatability	E _R	%S	≤ ± 0.070	≤ ± 0.035	≤ ± 0.026
Creep Error (30 Minutes)		%S	≤ ± 0.060	≤ ± 0.025	≤ ± 0.018
Creep Error (20-30 Minutes)		%S	≤ ± 0.0200	≤ ± 0.0053	≤ ± 0.0039
Temperature Effect on Minimum Dead Load Output	TC _o	%S _{nom} /5°C	≤ ± 0,0250	≤ ± 0.0117	≤ ± 0.0088
Temperature Effect on Minimum Dead Load Output, Type MR	TC _o	%S _{nom} /5°C		≤ ± 0.0047	≤ ± 0.0035
Temperature Effect on Sensitivity	TCs	%S/5°C	≤ ± 0.0250	≤ ± 0.0088	≤ ± 0.0065
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	12.5 18.0		
Recommended Excitation Voltage		V	15		
Maximum Current Consumption		mA	80		
Start-up Current		mA	150		
Rated Output	S _{nom}	Counts	$240.000 \le \pm 200$		
Zero Balance		Counts	≤ ± 200		
Insulation Resistance	R _{ins}	ΜΩ	≥ 5000		
Compensated Temperature Range	T _{cps}	°C	-10 +40		
Operating Temperature Range	T _{opr}	°C	-40 +80		
Storage Temperature Range	T_{srg}	°C	-40 +90		
Element Material			Stainless steel 1.4542		
Sealing (DIN 40.050 / EN 60.529)			IP66 and IP68		
Signal Update Per Second			25		
Baud Rate		Bits/s	9600		
Transmission Type			Asynchronous serial transmission		
Start Bits			1		
Data Bits			7		
Stop Bits			1		
Parity			Odd		
Maximum Transmission Cable Length		M	1200		
Data Transmission Interface			RS422 (4 communication wires) / RS485 (2 communication wires)		

The specified accuracies apply for the compensated temperature range.

Correct mounting of the load cells is essential to ensure optimum performance. Shield is connected to the load cell body through a

Further information is available on request.

Cable specifications:

Cable length 15m. Excitation + Green Excitation -Black Rx+ Yellow Rx -Blue Tx+ Red Tx -White Transparent

All dimension tolerances according to ISO 2768m, unless otherwise specified.

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



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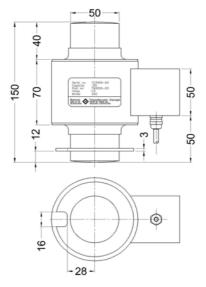
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All specifications subject to change without notice.

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