SINGLE-POINT LOAD CELL, PWS TYPE 10 ... 700 kg

Nominal sensitivity	2 ±0,002	mV/V	
Combined error	0,05	%	(*)
Sensitivity temperature coefficient, Tkc	0,045	% / 10 K	(*)
Zero signal temperature coefficient, Tko	0,045	% / 10 K	(*)
Zero signal tolerance	≤ 2,0	%	(*)
Compensated temp. range	-10 to +40	°C	
Service temperature range	-30 to +70	°C	
Storage temperature range	-50 to +85	°C	
Max. excitation voltage.	15	V	
Input resistance	min. 350	Ω	
Output resistance	350 ±3	Ω	
Isolation resistance	> 5000	MΩ	
Limit load rel. to rated load	150	%	
Breaking load / rated load	300	%	
Corner load error at 50% rated load	0,05	% / 100 mm	
Corner load error at 50% rated load (#)	0,5	% / 100 mm	
Material	stainless steel		
Protection class	IP65		
(*) Error related to rated load			
(#) at rated load 500 and 700 kg			

Electrical Cable: 6 Conductor + Shield, 5 m long

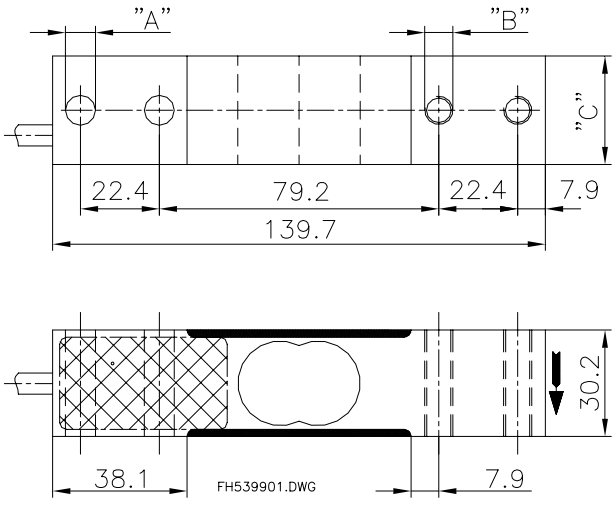
Cable Colour Code:

Input Voltage +	Black
Input Voltage –	Green
Measuring signal +	Red
Measuring signal –	White
Sensor conductor +	Blue
Sensor conductor –	Orange

Shield Yellow Conductor, isolated over its entire length

The connecting cable shield is <u>not</u> connected to the measuring body. Therefore, load cell grounding has to be provided for, e.g. via the connecting structure.

Dimensions



Arrow-head on front side = Measuring force direction

Emax = Rated load	Part = Material No.:	"A"	"B"	"C"	Torque	Full range to travel	ATEX Category
		(mm)					
10 kg	V058895.B01	8,5	M 8	23,8	32 Nm	0,30 mm	-
30 kg	V058895.B02	8,5	M 8	30,7	32 Nm	0,35 mm	-
60 kg	V058895.B03	8,5	M 8	30,7	32 Nm	0,35 mm	-
100 kg	V058895.B04	8,5	M 8	30,7	32 Nm	0,45 mm	-
150 kg	V058895.B05	8,5	M 8	30,7	39 Nm	0,45 mm	-
300 kg	V058895.B06	8,5	M 8	30,7	39 Nm	0,50 mm	-
500 kg	V058895.B07	10,4	M10	36,5	79 Nm	0,50 mm	-
700 kg	V058895.B08	10,4	M10	36,5	79 NM	0,50 mm	-
10 kg	V058895.B11	8,5	M 8	23,8	32 Nm	0,30 mm	2G/D
30 kg	V058895.B12	8,5	M 8	30,7	32 Nm	0,35 mm	2G/D
60 kg	V058895.B13	8,5	M 8	30,7	32 Nm	0,35 mm	2G/D
100 kg	V058895.B14	8,5	M 8	30,7	32 Nm	0,45 mm	2G/D
150 kg	V058895.B15	8,5	M 8	30,7	39 Nm	0,45 mm	2G/D
300 kg	V058895.B16	8,5	M 8	30,7	39 Nm	0,50 mm	2G/D
10 kg	V058895.B21	8,5	M 8	23,8	32 Nm	0,30 mm	3G/D
30 kg	V058895.B22	8,5	M 8	30,7	32 Nm	0,35 mm	3G/D
60 kg	V058895.B23	8,5	M 8	30,7	32 Nm	0,35 mm	3G/D
100 kg	V058895.B24	8,5	M 8	30,7	32 Nm	0,45 mm	3G/D
150 kg	V058895.B25	8,5	M 8	30,7	39 Nm	0,45 mm	3G/D
300 kg	V058895.B26	8,5	M 8	30,7	39 Nm	0,50 mm	3G/D

PWS load cells in rated capacity range 10 – 300 kg as legal-for-trade variants with the following additional characteristics:

- Combined Error 0,02 %
- Tko 0,014 %
- Tkc 0,018 %
- Max. number of increments n = 3000 (C3)
- Min. utilization Ba_{min} = 42 % (bei 3000 d)

- Min. load cell increment value $V\min_{WZ} = \frac{E\max}{7143}$

Example: PWS 100 kg
Min. utilization Ba_{min} = 42 kg

Min. increment value $V\min_{L/C} = \frac{100kg}{7143} = 14g\left(theoret.megnitude\right)$

i.e., the weighing electronics increment value is the next possible increment = 20 g.