
ABB MEASUREMENT & ANALYTICS | DATA SHEET

9QGPS2625

On board weighing load cells



Measurement made easy

Load cells specially designed for on board weighing on trucks, trailer cars and moving machines

Very sturdy design

High resistance against shocks

IP rating IP 67

Material: Alloy steel

Easy to install (no stabilization system needed)

Screws and blocks to be welded available

Available options (non exhaustive list)

- ATEX intrinsic safety

Applications

The load cells 9QGPS2625-9QGPS2645 are perfectly designed to the following applications:

- 'On board' weighing system on trucks, lorries or agrarian trailer
- 'On board' overload preventing system
- Force measurement where the load has to be hold with stiffness (example: weighing of railways)

Capacities

Model 9QGPS2625	Model 9QGPS2645
10 t	10 to 50 t

Explosion protection (option)

ATEX intrinsic safety:

- Ex II 1GD Ex ia IIC T6 or T4 Ga Ex ia IIIC T80°C Da

Specification

	0.5
Measuring accuracy	
Repeatability error	< ±0.25 % F.S.
Creep error over 30 min.	< ±0.2 % F.S.
Temperature coefficient of the sensitivity	< ±0.1 % F.S./10 °C
Temperature coefficient of zero signal	< ±0.1 % F.S./10 °C
Reference temperature	23 °C (73.4 °F)
Temperature data	
Nominal temperature range	-10 to 45 °C (14 to 113 °F)
Service temperature range	-25 to 70 °C (-13 to 158 °F)
Storage temperature range	-50 to 85 °C (-58 to 185 °F)
Electrical Data	
Input resistance	352 Ω ±2 Ω
Output resistance	352 Ω ±2 Ω
Insulation resistance (50 V)	> 5000 MΩ
Reference excitation voltage	10 V DC
Nominal range of excitation voltage	3 to 12 V DC
Zero balance	±0.02 mV/V
Nominal sensitivity	1 mV/V
Load limits	
Safe load limit	120 % F.S.
Breaking load	> 250 % F.S.
Static lateral force limit	100 % F.S.
Permissible dynamic loading	50 % F.S.

F.S.: Full scale

Dimensions

Load cells model 9QGPS2625, model 9QGPS2645 nickeled steel body

Range 10 to 50 t (100 to 500 kN), Cable length: 6 m (19.69 ft)

All dimensions in mm (in)

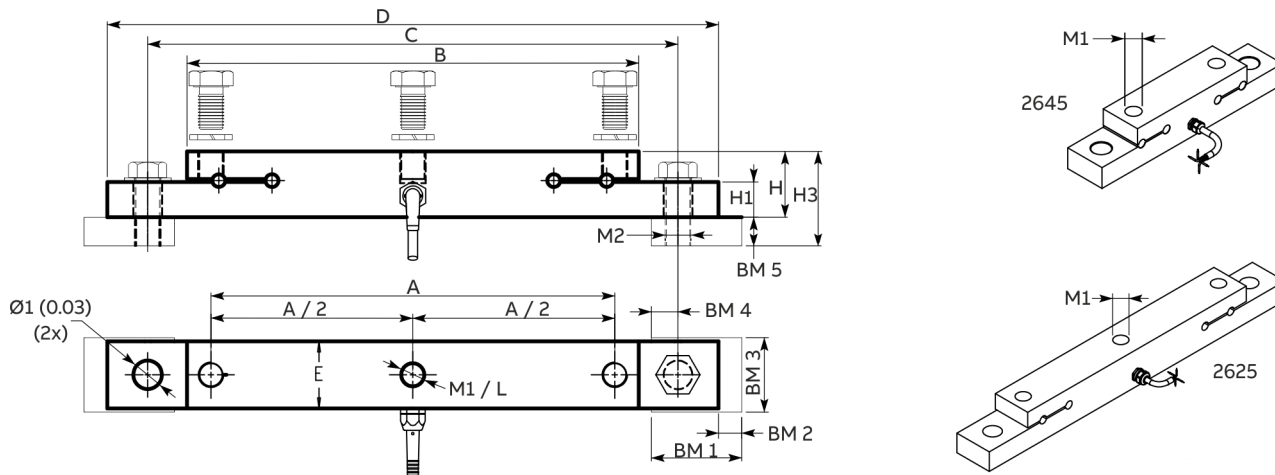


Figure 1: Standard dimensions

Capacities t														
Model	Static	Dynamic	A	B	C	D	E	H	H1	H3	Ø 1	M1/L	CL m (ft)	Weight Kg (lb)
2625-A	10	5	380 (14.96)	425 (16.73)	499 (19.65)	575 (22.64)	63 (2.48)	62 (2.44)	33 (1.30)	90 (3.54)	27 (1.06)	3 x M24 x 1.5/26	10 (32.8)	14.8 (32.63)
2645-A	10	5	152 (5.98)	200 (7.87)	270 (10.63)	390 (15.35)	63 (2.48)	62 (2.44)	33 (1.30)	90 (3.54)	27 (1.06)	2 x M24 x 1.5/26	10 (32.8)	7.5 (16.53)
2645-B	50	30	150 (5.91)	250 (9.84)	510 (20.08)	600 (23.62)	97 (3.82)	97 (3.82)	53 (2.09)	90 (3.54)	38.5 (1.52)	2 x M36 x 3/42	10 (32.8)	31.2 (68.78)
Model	BM1	BM2	BM3	BM4	BM5	S1 (DIN 961)		S2 (DIN 961)		W1 (DIN127)		M2	Weight Kg (lb)	
K-BM2625-A	85 (3.35)	22 (0.87)	70 (2.76)	25 (0.98)	28 (1.10)	3 x M24 x 1.5 L40 10.9		2 x M24 x 1.5 L60 10.9		5 x A24 M24 x 1.5		4 (8.82)		
K-BM2645-A	85 (3.35)	22 (0.87)	70 (2.76)	25 (0.98)	28 (1.10)	2 x M24 x 1.5 L40 10.9		2 x M24 x 1.5 L60 10.9		4 x A24 M24 x 1.5		3.75 (8.27)		
K-BM2645-B	145 (5.71)	50 (1.97)	97 (3.82)	50 (1.97)	50 (1.97)	2 x M36 x 3 L70 10.9		2 x M36 x 3 L100 10.9		4 x A36 M36 x 3		15.3 (33.73)		

Accessories

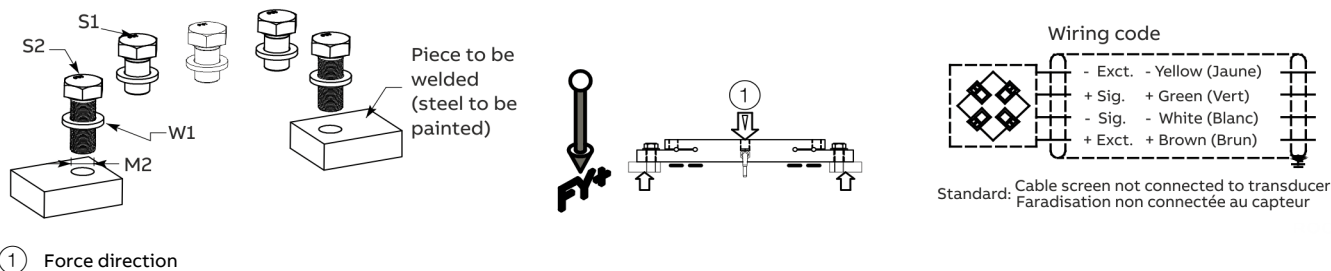


Figure 2: Accessories kit mounting blocks

Notes



Notes

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