

Single Point Load Cell 86L-AG with a Rated Load of 5 ... 100 kg



Performance Features

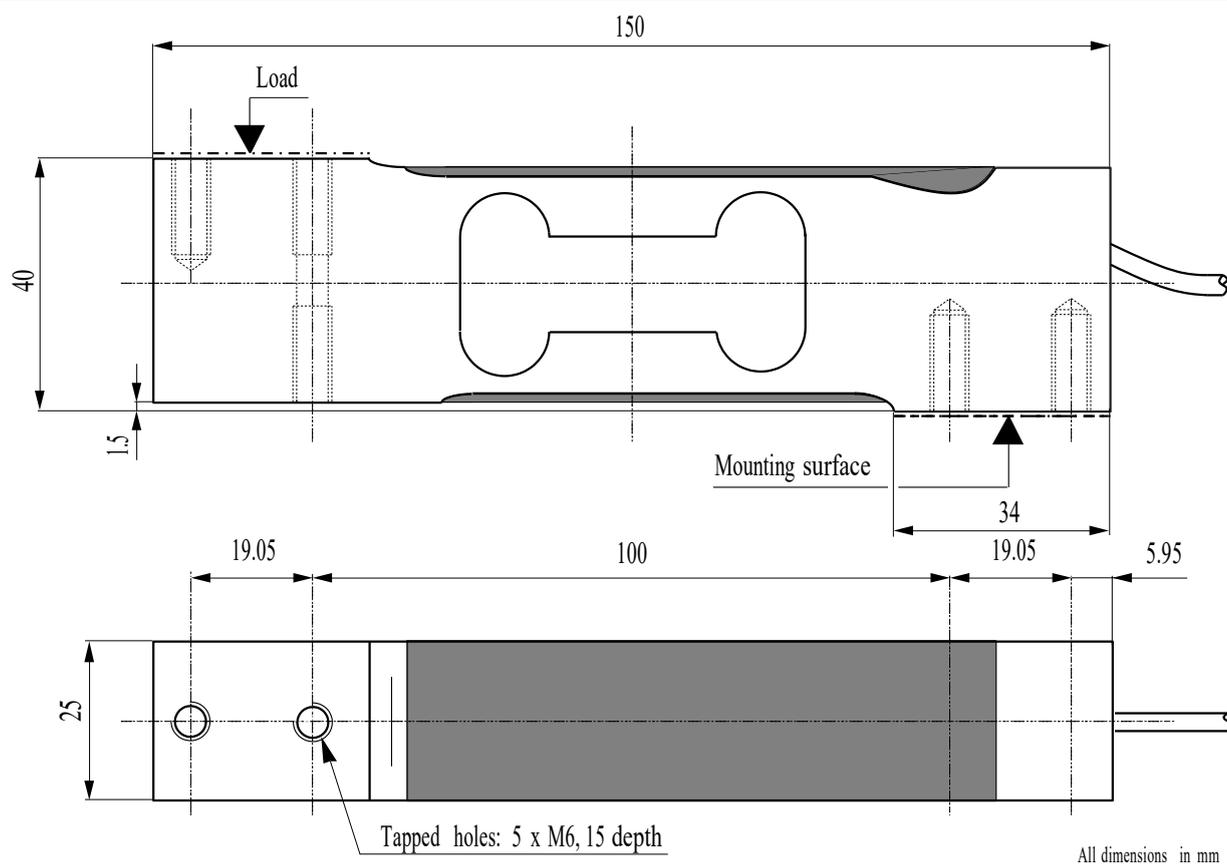
- Aluminum single point load cell
- 3000d OIML R60 and 5000d NTEP approved
- Level of protection: IP65
- Designed for platforms of maximum dimensions 400 mm x 400 mm (off-center load compensated)
- ATEX 2014/34/EU version for hazardous area (option)

Application

- Food industry
- Coal and steel industry
- Chemical/pharmaceutical industry
- Waste management/recycling
- Packaging technology



Dimensions in mm



Article-	Version	Rated Load [kg]
100215	C3 5e	5
100298	C3 10e	10
101076	C3 10e	15
100300	C3 10e	20
101077	C3 10e	30
100302	C3 10e	50
100889	C3 10e	75
100304	C3 10e	100

Connection Assignment

Electrical Connection		
Function	Wire Color	
Excitation (+)	Brown	
Signal (+)	Yellow	
Signal (-)	White	
Excitation (-)	Green	
Sensing (+)	Gray	
Sensing (-)	Pink	

Type	86L- AG		
Version		C3 5e	C3 10e
Rated load E	kg	5	10; 15; 20; 30; 50; 75; 100
Maximum load for approved weighing E_{max}	kg	6.25	10; 15; 20; 30; 50; 75; 100
Accuracy class OIML R60		C3	C3
Maximum numbers of load cell intervals n_{max}	d OIML	3000	3000
Minimum verification interval v_{min}	g	1	1; 1.5; 2; 3; 5; 7.5; 10
Creep division factor $Z = E_{max}/2 \times DR$		3000	3000
Combined error	% E	±0.017	±0.017
Temperature coefficient of zero signal	% E/°C	±0.0028	±0.0014
Temperature coefficient of characteristic value	% E/°C	±0.0014	±0.0014
Load creep d_{cr,F} in 30 min.	% E	±0.024	±0.024
Zero balance	% E		±10
Rated characteristic value C_{nom}	mV/V		2 ±10 %
Rated range of excitation voltage B_{U, nom}	V		1 ... 15
Input resistance R_e	Ω		410 ±15
Output resistance R_a	Ω		350 ±5
Insulation resistance R_{is}	MΩ/50V		2000
Electrical connection			Cable, PVC, 3 m
Rated temperature range B_{T, nom}	°C		-10 ... 40
Operating temperature range B_{T, G}	°C		-20 ... 60
Limit load E_{lim}	% E _{max}		150
Breaking load E_b	% E _{max}		200
Tightening torque	Nm		15
Maximum platform dimension	mm		400 x 400
Level of protection			IP65
Material			Aluminum
Weight	kg		0.45

Options

Article-No.	Description
111735	Protective coating
107798	ATEX 2014/34/EU, IECEx: ex II 1 G/D, Ex ia IIC T6 Ga, Ex ia IIIC T80 °C Da, IP6X, -20 °C < Ta < +60 °C (zones gaz 0/1/2, dust 20/21/22)
115049	ATEX 2014/34/EU, IECEx: ex II 1 D, Ex ta IIIC T125 °C Da, IP6X, -20 °C < Ta < +60 °C (zones dust 20/21/22)
115048	ATEX 2014/34/EU, IECEx: ex II 3 G, Ex nA IIC T6 Gc, -20 °C < Ta < +60 °C (zone gaz 2)
-	Marking FACTORY MUTUAL (FM): I.S., CL I, II, III / DIV 1 / GP ABCDEFG N.I., CL I, II, III / DIV 2 / GP ABCDEFG; NIFW

Accessories

Electrical Connection

Article-No.	Description
10323	Male cable connector KS6 (6-pin, Series 581) incl. mounting
10320	Male cable connector KSSH15 (15-pin) incl. mounting
43418	Input connector ZA9612FS (ALMEMO) incl. sensor mounting and connector calibration
49205	Input connector ZKD712FS (ALMEMO 202) incl. sensor mounting and connector calibration