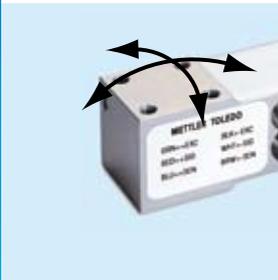


## Easy System Integration Platform Size 400x400 mm



### Bench and Floor Scales

MT1241 provides the best weighing performance for bench scales and smaller floor scales in its capacity range. With a low profile design, cost optimization and an attractive product appearance can be achieved.



### Off-Center compensation

One load cell can be used to support a weighing platform and, due to the off-center load compensation, the MT1241 will weigh within tolerance regardless of load application point.



### Robustness

MT1241 allows 50% static overload without compromising the weighing performance. The passivated aluminium provides good corrosion resistance suitable for many industrial applications.

### MT1241 Single Point Load Cell

The MT1241 load cell features:

- OIML R60 C3 approval
- Off-center load compensation (R76)
- 400x400 mm platform size
- IP67 protection class
- Passivated aluminum
- 30-250kg capacity range

The MT1241 is the ideal solution for small floor scales and hoppers. Due to the low profile the integration into any system is easy. The broad capacity range allows wide application in industrial weighing applications.

# MT1241 Load Cell Specifications

Parameter	unit of measure	Specification					
		MT1241					
Model No:		30 (66)	50 (110)	100 (220)	150 (331)	200 (441)	250 (551)
Rated Capacity (R.C.)	kg (lb, nominal)						
Rated Output	mV/V @R.C.	2 ± 0.2					
Zero load Output	%R.C.	≤ 10					
Combined Error <sup>1)</sup>	%R.C.	≤ 0.018					
Repeatability Error	%R.C.	≤ 0.01					
Creep, 30 minute	%A.L. <sup>2)</sup>	≤ 0.0167					
Min. Dead Load Output Return (DR), 30 min	%A.L.	≤ 0.0167					
Temperature Effect on	Min Dead load Output	≤ 0.0023 (0.0011)					
	Sensitivity	≤ 0.0009 (0.0005)					
Temperature Range	Compensated	-10 to +40 (+14 to +104)					
	Operating	-20 to +65 (-4 to + 150)					
	Safe Storage	-20 to +80 (-4 to +176)					
OIML / European Approval <sup>3)</sup>	OIML Cert. No.	R60/2000-NL 1-03.10					
	European Cert. No.	NMI TC5382					
	Class	C3					
	n <sub>max</sub>	3000					
	Y	6000					
	Z	3000					
	Plc	0.7					
	Humidity Symbol	none					
Excitation Voltage	Min. dead load	0 (0)					
	Recommended	5~15					
Terminal Resistance	Maximum	20					
	Excitation	Ω					
Insulation Resistance @50VDC	Output	410 ± 10					
		Ω					
Breakdown Voltage		350 ± 4					
		MΩ					
Material		≥ 5000					
	Spring Element	V AC					
	Enclosure	> 500					
	Cable entry fitting	Aluminum					
Protection	Cable	none					
	Type	none					
Load Limit	IP Rating	silicone cover					
	Safe	IP 67					
Safe Dynamic Load	Ultimate	150					
		300					
Fatigue Life		70					
		cycles @R.C.					
Direction of Loading		>1,000,000					
		compression					
Deflection @ R.C.		0.3 typ (0.012 typ)					
		mm (in)					
Weight		1.2 (2.7)					
		kg (lb)					
Cable Length		2 (6.6)					
		m (ft)					
Barometric Pressure Effect on Zero Load Output		none					
		kg/kPa (lb/in.Hg)					
Safe Side Load		100					
		%R.C.					
Mounting Screw		No					
	Grade	12.9					
	Size/thread	M6x1					
	Engaged Length	12 (0.5)					
Max Platter Size		10 (7.4)					
		N.m (ft-lb)					
Off Center Load Error @33%R.C.		40x40 (15.7x15.7)					
		cm x cm (in x in)					
		0.0049 (0.012)					
		%A.L./cm (./in)					

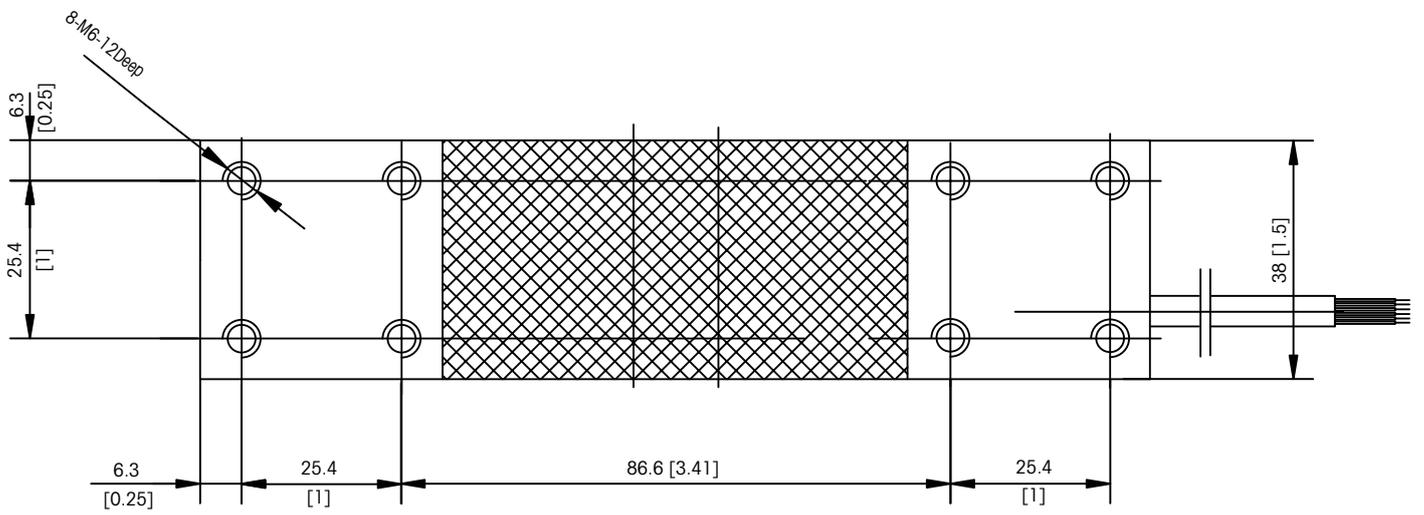
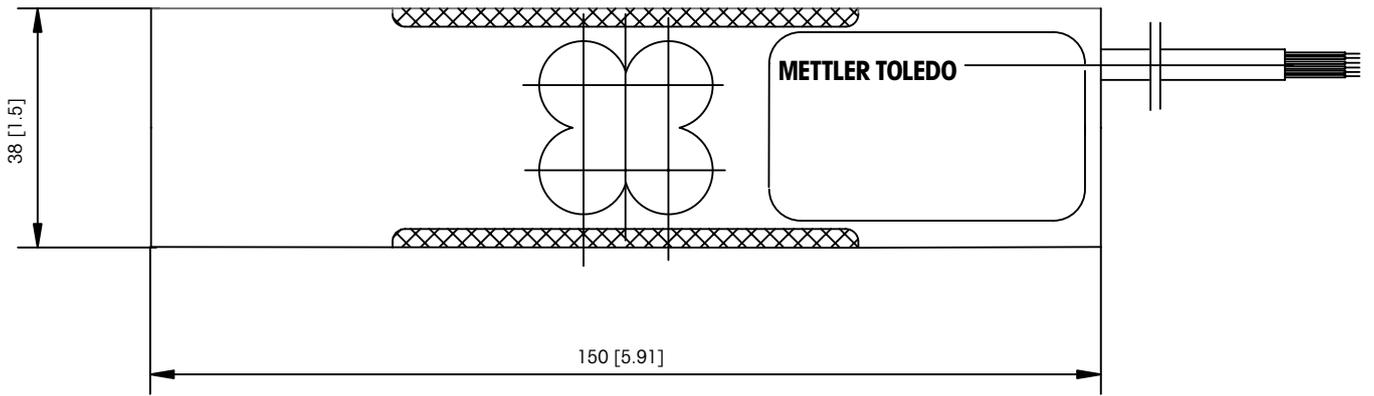
<sup>1)</sup> Error due to the combined effect of non-linearity and hysteresis

<sup>2)</sup> A.L. = Applied Load

<sup>3)</sup> See certificate for complete information.



# MT1241 Load Cell Dimensional Drawings mm [inch]



## MT1241 Load Cell Order Information

Description	Item No.
Load Cell MT1241-30kg	71207451
Load Cell MT1241-50kg	71207452
Load Cell MT1241-100kg	71207453
Load Cell MT1241-150kg	71201841
Load Cell MT1241-200kg	71201842
Load Cell MT1241-250kg	71207454

## MT1241 Load Cell Cable Colours

Colour	Function
Green	+ Excitation
Black	- Excitation
Red	+ Signal
White	- Signal
Blue	+ Sense
Brown	- Sense
Yellow	+ Shield

### Full Connectivity

METTLER TOLEDO supplies various data communication interfaces that enable our sensors and instruments to communicate with your PLC, MES, or ERP systems.



### OIML Approvals

The MT1241 is provided with C3 approval acc. to OIML R60. Thus best weighing performance is guaranteed at all specified conditions. Benefit from METTLER TOLEDO experience.



### Worldwide Services

Our extensive service network is among the best in the world and ensures maximum availability and service life of your product.

### Weighing Electronics

METTLER TOLEDO offers a complete family of electronics from simple weighing to application solutions for filling, stock control, batching, formulation, counting, and checkweighing.



Quality certificate ISO 9001  
Environment certificate ISO 14001

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