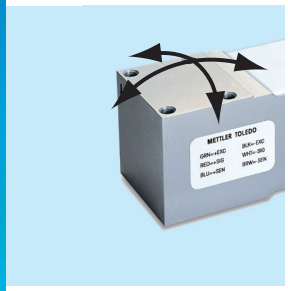
MT1260 Load Cell

Easy System Integration

Platform Size 600x600 mm

Floor Scale, Tank Weighing

MT1260 provides the best weighing performance for floor scales and hopper weighing 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 MT1260 will weigh within tolerance regardless of load application point.

Robustness

MT1260 allows 50% static overload without compromising the weighing performance. The passivated aluminium provides good corrosion resistance suitable for many industrial applications.

MT1260 Single Point Load Cell

The MT1260 load cell features:

- OIML R60 C3 approval
- NTEP 5000 III S/M approval
- ATEX Zone 1/2 and 21/22 approvals
- Off-center load compensation (R76)
- 600x600 mm platform size
- IP67 protection class
- Passivated aluminum
- 50-750kg capacity range

The MT1260 is the ideal solution for floor scales and smaller hoppers. Due to the low profile the integration into any system is easy. The broad capacity range and large platform size allows wide useage in industrial weighing applications.

METTLER TOLEDO

MT1260 Load Cell Specifications

Parameter		Unit of measure	Specification								
Model No.			MT1260								
Rated capacity (R.C.)		kg (lb, nominal)	50 (110)	75 (165)	100 (220)	150 (331)	200 (441)	250 (551)	300 (661)	500 (1102)	750 (1654)
Rated output		mV/V @R.C.	2 ± 0.2								
Zero load output		%R.C.	≤ 10								
Combined error [1) 2)]		%R.C.	≤ 0.016								
Repeatability error		%A.L. [3)]	≤ 0.01								
Creep, 30 minute		%A.L.	≤ 0.0167								
Min. dead load output return (DR), 30 min		%A.L.	≤ 0.0167								
Temperature effect on	Min. dead load Output	%R.C./°C (../°F)	≤ 0.0014 (0.0008)								
	Sensitivity [2)]	%A.L./°C (../°F)	≤ 0.0007 (0.00036)								
Temperature range	Compensated	°C (°F)	-10 ~ +40 (+14 ~ +104)								
	Operating		-40 ~ +65 (-40 ~ +150)								
	Safe storage		-40 ~ +80 (-40 ~ +176)								
OIML / European approval [4)]	OIML Cert. No.		R60/2017-A-NL1-20.08								
	European Cert. No.		NMi-1902131-03, NMi-1902131-04								
	Class		C3								
	nmax		3000								
	Y		10000								
	PLC		0.7								
	Humidity symbol		None								
	Min. dead load	kg (lb)	0 (0)								
	Z		3000								
NTEP approval [4)]	Number		11-088								
	Class		III S, III M								
	nmax		5000								
	Vmin	g (lb)	5 (0.011)	7.5 (0.017)	10 (0.022)	15 (0.033)	20 (0.044)	25 (0.055)	30 (0.066)	50 (0.11)	75 (0.17)
	Min. dead load	kg (lb)	0 (0)								
ATEX approval [4)]	Number, cat. 2		KEMA 09ATEX0003 X								
	Number, cat. 3		KEMA 09ATEX0004 X								
	Rating		II 2 G Ex ib IIC T4								
			II 2 D Ex ibD 21 IP66 T135 °C								
			II 3 G Ex nA II T4								
			II 3 G Ex nL IIC T4								
			II 3 D Ex tD A22 IP66 T135°C								
	Entity parameters		Ui/Un=20V, Ii=600mA, Pi=1.25W, Ci=5nF, Li=30µH								
Excitation voltage	Recommended	V AC/DC	5 ~ 15								
	Max.		20								
Terminal resistance	Excitation	Ω	410 ± 10								
	Output		350 ± 4								
Insulation resistance @50VDC		MΩ	> 5000								
Breakdown voltage		V AC	> 500								
Material	Spring element		Aluminium								
	Enclosure		None								
	Cable		PVC								
Protection	Type		Potted								
	IP rating		IP 67								
	NEMA rating		NEMA 6/6P								
Load limit	Safe	%R.C.	150								
	Ultimate		300								
Safe dynamic load		%R.C.	70								
Fatigue life		cycles @R.C.	> 1000000								
Direction of loading			Beam								
Deflection @ R.C., nominal		mm (in)	< 0.4 (0.016)								
Weight, nominal		kg (lb)	1.9 (4.2)								
Cable length		m (ft)	2 (6.6)								
Barometric pressure effect on zero load output		kg/kPa (lb/in.Hg)	None								
Safe side load		%R.C.	100								
Overload protection			None								
Mounting screw	Grade		12.9								
	Size/thread	mm (in)	M8x1.25								
	Engaged length	mm (in)	20 (0.79)								
	Torque, nominal	N.m (ft-lb)	25 (18)								
Max. platter size		cm x cm (in x in)	60 x 60 (24 x 24)								
Off center load error, R76-1		%A.L./cm (../in)	0.0032 (0.008)								

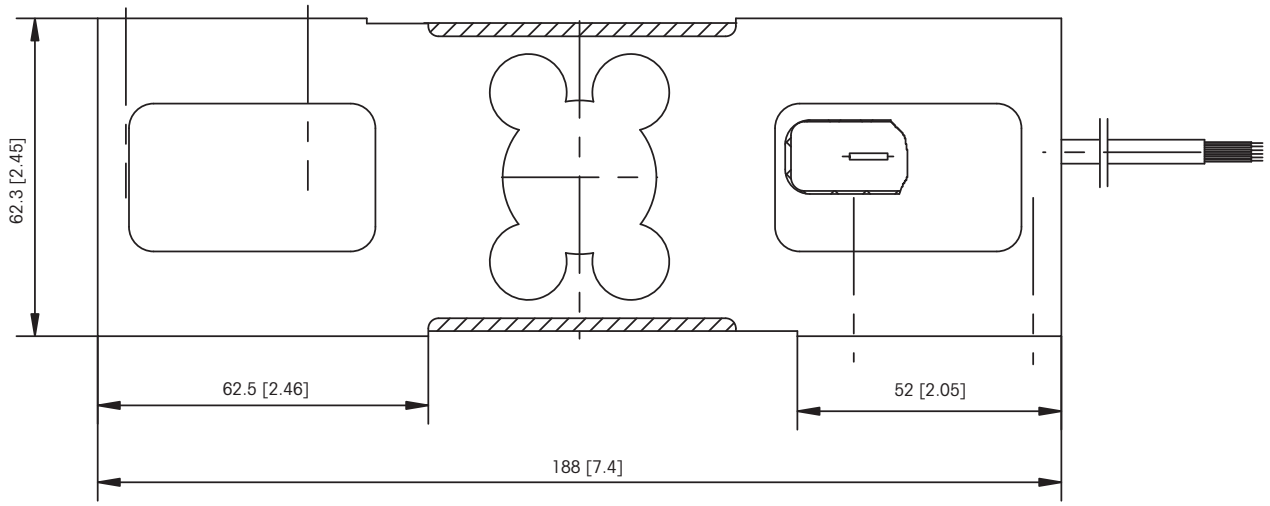
[1)] Error due to the combined effect of non-linearity and hysteresis

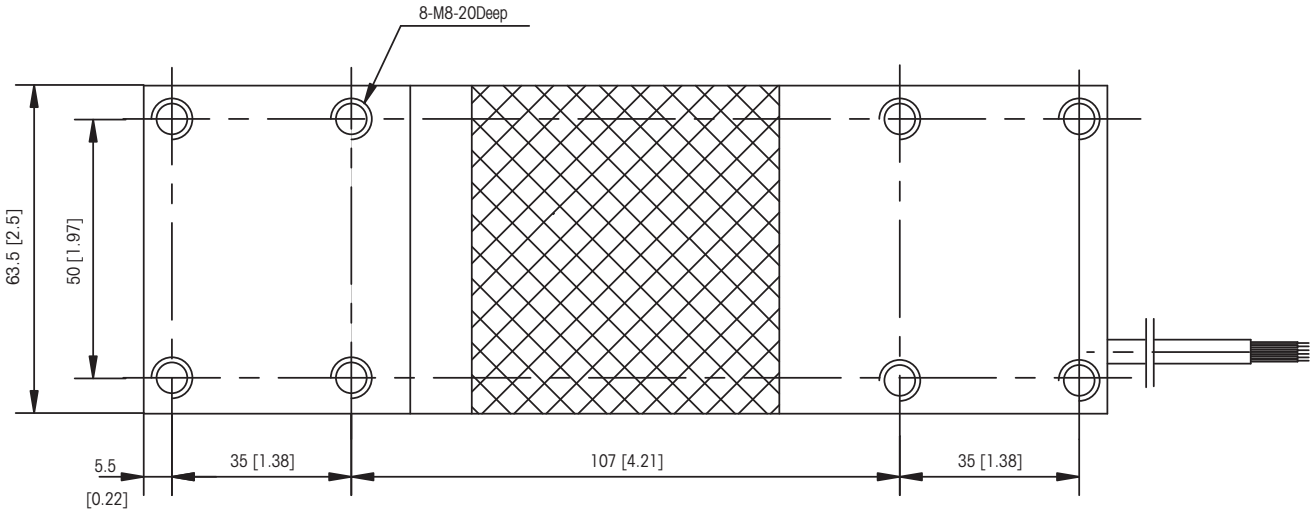
[2)] Typical values only. The sum of errors due to combined error and temperature effect on sensitivity comply with the requirements of OIML R60 and NIST HB44.

[3)] A.L. = Applied Load

[4)] See certificate for complete information.

MT1260 Load Cell Dimensional Drawings mm [inch]





MT1260 Load Cell Order Information

Description		Item No.
Load cell, model no. MT1260-50kg	**2m Cable**	**71201844**
Load cell, model no. MT1260-75kg	**2m Cable**	**71201845**
Load cell, model no. MT1260-100kg	**2m Cable**	**71201846**
Load cell, model no. MT1260-150kg	**2m Cable**	**71201847**
Load cell, model no. MT1260-200kg	**2m Cable**	**71201848**
Load cell, model no. MT1260-250kg	**2m Cable**	**71201849**
Load cell, model no. MT1260-300kg	**2m Cable**	**71207455**
Load cell, model no. MT1260-500kg	**2m Cable**	**71207456**
Load cell, model no. MT1260-750kg	**2m Cable**	**71209936**
Load cell, model no. MT1260-50kg	**6m Cable**	**72208484**
Load cell, model no. MT1260-75kg	6m Cable	72208485
Load cell, model no. MT1260-100kg	**6m Cable**	**72208486**
Load cell, model no. MT1260-150kg	6m Cable	72208487
Load cell, model no. MT1260-200kg	6m Cable	72208488
Load cell, model no. MT1260-250kg	6m Cable	72208489
Load cell, model no. MT1260-300kg	**6m Cable**	**72208490**
Load cell, model no. MT1260-500kg	**6m Cable**	**72208491**
Load cell, model no. MT1260-750kg	6m Cable	72208492

MT1260 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.

EtherNet/IP™ DeviceNet™ ControlNet™

PROFIBUS® ROCKWELL AUTOMATION ENCOMPASS GLOBAL PARTNER ENABLED BY ALLEN-BRADLEY TECHNOLOGY ModConnect

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.

METTLER TOLEDO Service

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

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