Globally Approved

for Accuracy and Safety



Applications

0743 is ideal for floor scales, tank and hopper scales in process industries. It is constructed of stainless steel which provides excellent corrosion protection. The full set of approvals makes it the right choice for your application.



Tank Weighing

The capacity range from 9t to 20.4t is ideal for mid size tank and hopper weighing in most demanding applications.



Hermetically Sealed

The stainless steel cups are welded in place to create a hermetic seal to prevent moisture from entering the interior of the load cell and deteriorating the weighing performance.

0743 High Capacity Beam Load Cell

The 0743 beam load cell features:

- OIML C3, and NTEP ClassIIIM 5000d approvals
- ATEX Zone1/2 and 21/22 approvals
- FM Class I, II, III Div 1&2 approvals
- · Stainless steel
- Hermetically sealed design
- IP68 protection class

Every 0743 comes with all the approvals listed. The 0743 is a stainless beam load cell designed for harsh and hazardous environments specifically for the process industry. 0743 is approved for use in various applications in Europe, Asia, America and almost everywhere else in the world. If an approval is required, the 0743 probably already complies.



0743 Load Cell Specifications

Parameter		unit of measure	Specification						
Model No:				0743					
ated Capacity (R.C.)		t nominal (lb)	9.07 (20000)	13.6 (30000)	20.4 (45000)				
ated Output		mV/V @R.C.		2 ± 0.005					
ero load Output		%R.C.		≤ 1.5					
combined Error 1) 2)		%R.C.		≤ 0.018					
Repeatability Error		%A.L. ³⁾		≤ 0.01					
Creep, 30 minute		%A.L.		≤ 0.0167					
Min. Dead Load Output Return		%A.L.		≤ 0.0167					
emperature Effect on	Min Dead load Output	%R.C./°C (/°F)		≤ 0.002 (0.001)					
Terriperdidie Ellect off	Sensitivity 2)	%A.L./°C (/°F)		≤ 0.0009 (0.0005)					
	Compensated	°C (°F)	-10 to +40 (+14 to +104)						
Temperature Range	Operating	°C (°F)	-20 to +65 (-4 to +122)						
	Safe Storage	°C (°F)	-40 ~ +80 (-40 ~ +176)						
	OIML Cert. No.		R60/1991-NL-97.31						
	European Cert. No.		NMi TC2977						
	Class		C3						
IML / European Approval 4)	nmax		3000						
iivit / Luiopeuii Appiovui 🤊	Υ		6000						
	PLC		0.7						
	Humidity Symbol		none						
	Min. dead load	kg (lb)		50 (110)	100 (220)				
	Number			, ,					
	Class			88-008 III M					
TEP Approval ²⁾	Nmax		5000						
rr : :	Vmin	kg (lb)	1.3 (2.8) 1.9 (4.2) 2.9 (6.4)						
	Min. dead load	kg (lb)	90 (200)						
	Number, Category 2	1.0 (1-7		KEMA O3ATEX1069					
	Number, Category 3	+	KEMA O3ATEX1070						
	Marribor, Galogory G			II 2 G Ex ia IIC T4 Gb					
	Ratings								
TEX Approval ⁴⁾			II 2 D Ex tb IIIC T100 °C Db II 3 G Ex ic IIC T4 T Gc						
			II 3 G Ex no IIC T4 Gc						
			II 3 D Ex to IIIC T100 °C Dc Ui=25V, Ii=600mA, Pi=1.25W, Ci=5nF, Li=30µH						
	Entity Parameters								
	Monthe	_	Un = 25V						
	Number			3005885					
	B !!		IS / I,II,III / 1 / ABCDEFG /T4						
actory Mutual	Rating		NI / I / 2 / ABCD / T6						
pproval ⁴⁾	F. III D			S / II,III / 2 / FG / T6					
	Entity Parameters		Vmax=25V, Imax=600mA, Pi=1.25W, Ci=0, Li=29µН						
	System Drawing No			158574R					
xcitation Voltage	Recommended	V AC/DC		5-15					
Monanon vonago	Maximum	V AC/DC		20					
erminal Resistance	Excitation	Ω		380±20	2200 ± 100				
	Output	Ω		350 ± 2	2000 ± 20				
sulation Resistance @50VDC		МΩ		≥ 5000					
reakdown Voltage		V AC		> 500					
	Spring Element			stainless steel					
aterial	Enclosures		304 stainless steel						
Maleriai	Cable entry fitting		304 stainless steel						
	Cable			Polyurethane					
	Туре			welded					
rotection	IP Rating			IP 68					
	NEMA Rating			NEMA 6/6P					
	Safe	%R.C.		150					
Load Limit	Ultimate	%R.C.		300					
afe Side Load ⁵⁾		%R.C.		100					
afe Dynamic Load		%R.C.		70					
rtigue Life		cycles @R.C.		>1,000,000					
irection of Loading		0,000 0100		>1,000,000 beam					
eflection @ R.C., nominal		mm (in)	Λ.	91 (0.036)	1.65(0.065)				
Weight, nominal Cable Length		kg (lb)	7.0 (15.5) 11.5 (25.5)						
	ara Laad Outaid	m (ff)		4.5, 9.1, 18.2 (15, 30, 60)					
arometric Pressure Effect on Z		kg/kPa (lb/in.Hg)		none					
	Grade			8.8 (Grade 5)	1100 / // // -				
lounting Screw	Size / thread	mm (in)	M24	4 (1-8 UNC)	M30 (1-1/4-7 UNC)				
	Engaged Length	mm (in)		_					
· ·	Torque, nominal	N.m (ff-lb)		00 (475)	1200 (1000)				

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

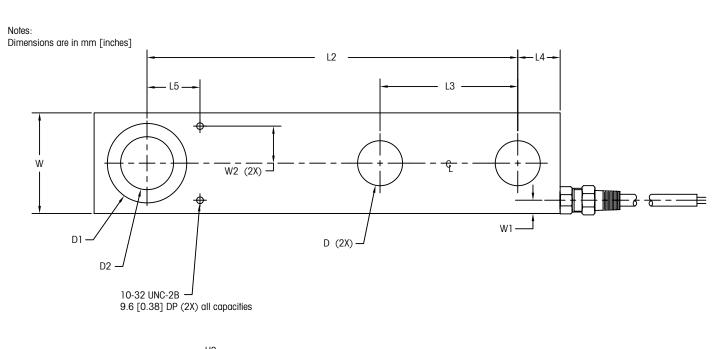
³⁾ A.L. = Applied Load

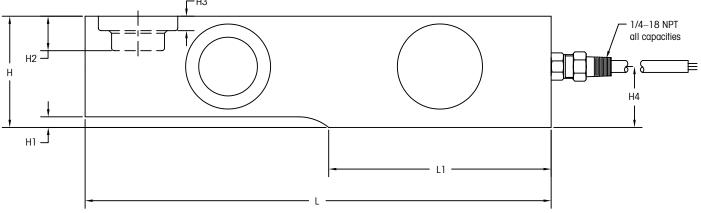
⁴⁾ See certificate for complete information.

⁵⁾ Protect mounting screws from shear

0743 Load Cell Dimensional Drawings

Capacity	Dimensions and Locations																
	D (2x)	D1	D2	Н	H1	H2	H3	H4	L	L1	L2	L3	L4	L5	W	W1	W2 (2x)
9072-13608 kg	27.0	47.6	31.8	66.7	6.4	20.6	8.6	36.5	279.4	133.4	222.3	82.6	25.4	31.8	60.4	7.9	22.2
[20,000-30,000 lb]	[1.06]	[1.88]	[1.25]	[2.36]	[0.25]	[0.81]	[0.34]	[1.44]	[11.00]	[5.25]	[8.75]	[3.25]	[1.00]	[1.25]	[2.38]	[0.31]	[0.88]
20412 kg	33.3	54.0	38.1	82.6	12.7	24.2	9.5	47.6	317.5	152.4	247.7	88.9	31.8	34.9	69.9	10.9	25.4
[45,000 lb]	[1.31]	[2.13]	[1.50]	[3.25]	[0.50]	[0.95]	[0.38]	[1.87]	[12.50]	[6.00]	[9.75]	[3.50]	[1.25]	[1.38]	[2.75]	[0.43]	[1.00]





0743 Load Cell Order Information

Description	Item No.
Load cell, model no. 0743, 9t (20klb) 4.5m (15ft) cable	71208065
Load cell, model no. 0743, 9t (20klb) 9.1m (30ft) cable	71208066
Load cell, model no. 0743, 9t (20klb) 18.2m (60ft) cable	71208067
Load cell, model no. 0743, 13.6t (20klb) 4.5m (15ft) cable	71208068
Load cell, model no. 0743, 13.6t (20klb) 9.1m (30ft) cable	71208069
Load cell, model no. 0743, 13.6t (20klb) 18.2m (60ft) cable	71208070
Load cell, model no. 0743, 20.4t (20klb) 4.5m (15ft) cable	71208071
Load cell, model no. 0743, 20.4t (20klb) 9.1m (30ft) cable	71208072
Load cell, model no. 0743, 20.4t (20klb) 18.2m (60ft) cable	71208073

Bolded entries are stocked

0743 Load Cell Cable Colours

Colour	Function
Green	+ Excitation
Black	Excitation
White	+ Signal
Red	— Signal
Yellow	Shield

Full Connectivity

Our sensors and instruments are professional communicators. METTLER TOLEDO supplies you with various data communication interfaces that allow you to communicate with your PLCs, MES or ERP systems.















The 0743 is provided with all listed approvals. No need to think about options and additional charges. Simplifies the conduct of global business, order processing and service-part stocking.









METTLER TOLEDO Service

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, checkweighing.