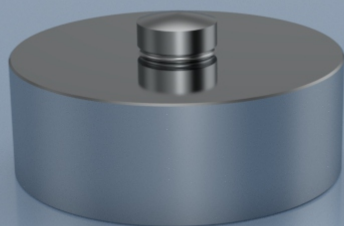




CDIT-1



CDIT-1 Stainless Steel Low Profile Compression Load Cell

Description

The CDIT-1 series of load cells has been designed for a wide range of force measurement and weighing applications where space is limited. The CDIT-1 is constructed from stainless steel and has a fully welded construction, offering a high level of corrosion resistance making it suitable for use in harsh environments.

Available in ranges covering 50kg to 5000kg, there are many applications ideally suited to the CDIT-1, including restricted height weighing applications, general force measurement and press calibration.

LCM Systems can provide the CDIT-1 on its own or combined with any of our instrumentation range, to offer a more complete package. Please consult our technical department for any advice required on suitable instrumentation solutions.

Specification

Rated load (kg)	50, 100, 250, 500, 1000, 2500, 3500, 5000
Nominal sensitivity	2mV/V at rated load
Sensitivity tolerance	$\leq \pm 0.2\%$ of rated load
Temperature effect on zero	$\leq \pm 0.003\%$ per °C
Temperature effect on sensitivity	$\leq \pm 0.0025\%$ per °C
Linearity	$\leq \pm 0.2\%$ of rated load
Hysteresis	$\leq \pm 0.2\%$ of rated load
Repeatability	$\leq \pm 0.05\%$ of rated load
Input resistance	400Ω $\pm 20\Omega$
Output resistance	350Ω $\pm 2\Omega$
Insulation resistance	$> 5G\Omega$
Zero balance	$\leq \pm 1\%$ of rated load
Recommended supply voltage	10V (1-15V nominal, 18V maximum)
Overload range	150%
Breaking load	$> 300\%$
Maximum transverse load	50%
Maximum permissible dynamic load	50%
Displacement at nominal load	~0.2mm
Temperature nominal range	-10 to +40°C
Service temperature	-20 to +70°C
Storage temperature	-20 to +80°C
Environmental protection level	IP67
Connection type	3 metres PVC screened cable, via gland cable
Wiring connections	+supply: Red -supply: Black +signal: White -signal: Yellow

Available Options

- TEDS option (when used with TR150 handheld display)

Features

- Ranges: 50 to 5000kg
- Low height/profile
- Stainless steel construction
- Environmentally sealed to IP67



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Typical Applications

- Process measurement & control
- Automotive testing
- Low profile weighing systems

AVAILABLE TO BUY ONLINE

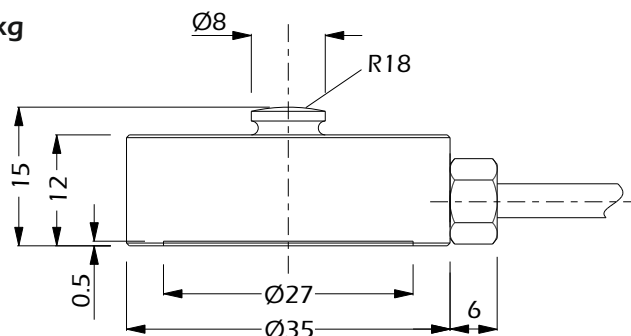
Visit our website www.lcmsystems.com

(In-stock items usually ship within 48 hours)

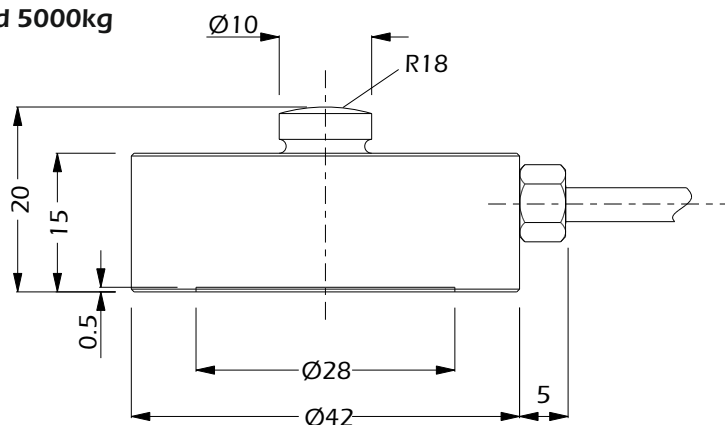
CDIT-1 Stainless Steel Low Profile Compression Load Cell

Dimensions

50kg to 2500kg

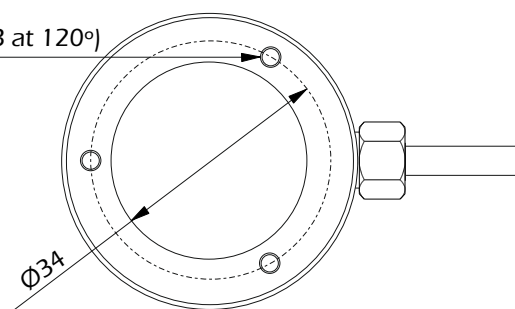


3500kg and 5000kg

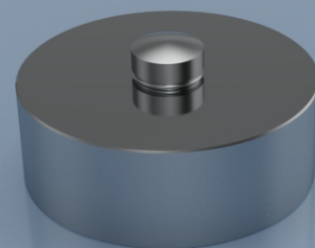


All dimensions are in mm

3x holes (M3 at 120°)



Rating (kg)	Part Number	Weight (g)	Resolution (kg)
50	CDIT-1-50	130	0.1
100	CDIT-1-100	130	0.1
250	CDIT-1-250	130	0.2
500	CDIT-1-500	130	0.5
1000	CDIT-1-1000	130	1
2500	CDIT-1-2500	130	2
3500	CDIT-1-3500	200	2
5000	CDIT-1-5T	200	5



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Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice.

Issue No. 2

Issue date: 03/02/2021

APPROVED

(unapproved if printed)