

Professionally approved products.

Datasheet

6 Digit LCD Counter

RS Stock number [653-7643](#)



Description:

The Large Display is a versatile display that can be configured as a single or dual counter with rate indication, scaling, serial communications and a dual relay output. There are also basic models that have a single counter with direction control only (no scaling or relay output).

The 4 & 6 digit displays are available in either 2.25" or 4" high red LED digits with adjustable display intensities. The 2.25" high models are readable up to 130 feet. The 4" high models are readable up to 180 feet. All versions are constructed in an enclosure in light weight aluminium.

The 6-digit programmable models have two signal inputs and a choice of eight different count modes. These include bi-directional, quadrature and anti-coincidence counting, as well as a dual counter mode. When programmed as a dual counter, each counter has separate scaling and decimal point selection.

Rate indication is available on the programmable models only. The rate indicator has separate scaling and decimal point selection, along with programmable display update times. The meter display can be toggled either manually or automatically between the count and rate values.

The programmable models also come with a dual Form C relay output and RS232 or RS485 serial communications. The outputs can activate based on either counter or rate setpoint values. An internal batch counter can be used to count setpoint output activations.

Professionally approved products.

Technical data counter	
Input:	NPN, PNP sensors; CMOS, TTL signals, floating contacts incl. input filter to combat contact bounce
Operating modes:	LDx00400: simple 4-character batch counter
	LDx00600: simple 6-character batch counter
	LDx006P0: double counter/tachometer, addition/subtraction with direction recognition, difference, total, phase discriminator
Maximum input frequency:	up to 35 kHz depending on operating mode
Tachometer:	minimum input frequency 0.01 Hz with continuous period measurement
Sensor power supply:	11 → 16 Vdc, max. 50 mA (for 230-V AC supply only)
User input:	1 programmable user input, PNP or NPN switching, max. 28 V DC
Relay output:	Changeover relay, 5 A at 120 / 240 V AC
Serial interface:	RS485/232 to 300 up to 38,400 Baud
DC voltage supply:	11 → 16 V DC, max. 400 mA, 7 W

Professionally approved products.

Technical data timer	
Inputs:	PNP or NPN switching with max. 28 V DC, min. pulse width 1 ms incl. input filter to combat contact bounce, max. response time 1 ms
Function:	Timer / cycle counter / timer relay with forward or backward counting
Sensor power supply:	11 → 16 Vdc, max. 50 mA (for 230-V AC supply only)
User input:	1 programmable user input, PNP or NPN switching, max. 28 V DC
Relay output:	Changeover relay, 5 A at 120 / 240 V AC
Serial interface:	RS485/232 to 300 up to 38,400 Baud
AC voltage supply:	85 → 250 V AC, 50 / 60 Hz, 14 VA
DC voltage supply:	11 → 16 V DC, max. 400 mA, 7 W

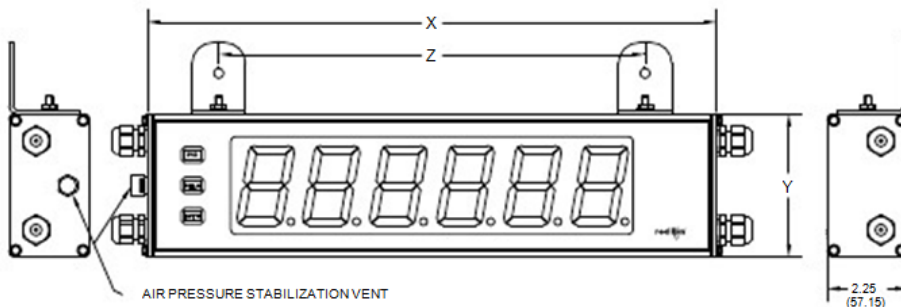
Professionally approved products.

Specifications:

Connection Type:	Screw
Count Direction:	Bi-directional
Count Mode:	Seconds
Digit Height:	101 mm
Display Range:	0 to 99999
Display Type:	LED
Input Type:	Logic
Maximum Count Frequency:	35 kHz
Maximum Operating Temperature:	50 °C
Minimum Operating Temperature:	0 °C
Mounting Type:	Panel
Number of Digits:	6
Output / Interface:	Relay
Reset Method:	Manual
Weight:	4.76 kg

Dimensional Drawing:

The measurements are given in inches with metric given in brackets.



PART NUMBER	X (Length)	Y (Height)	Z (Center)
LD2004xx12	304.8	4 (101.6)	8 (203.2)
LD2006xx16	406.4	4 (101.6)	12 (304.3)
LD4004xx20	508	7.875 (200)	16 (406.4)
LD4006xx26	660.4	7.875 (200)	22 (558.8)