

K19X

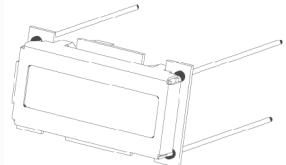
LCD Counter Module for PCB Mount



K192



K190 | K191



An LCD counter for PCB mounting, the K19X is a range of versatile totalizers for use in a range of applications including portable devices, vending and gaming machines, printers and copiers. A single-channel count module that features an easy to read LCD display with 6 or 7 digits, EEPROM backup and 3 voltage ranges (4.75 - 15V DC, 8 – 28V DC and 9 - 60 V DC) and very wide temperature range. This ensures the device is extremely robust and suitable for many application areas, even under the harshest operating conditions.

Key Features

- Suitable for portable devices, vending and gaming machines, printers and copiers
- Can be used for simple counting, length and distance measurement
- Wide temperature range and wide voltage supply range
- Very high reliability
- Small size and low cost
- Low operating current
- Very high shock and vibration resistance
- Count frequency up to 10 kHz
- 6 or 7-digit LCD display
- Low operating current.
- Very high shock and vibration resistance
- Non-volatile memory (no battery)
- Single channel count input.
- Electrical reset options

Specifications

Dimensions and Wiring

| | K190/K191 | K192 |
|--------------------------------|---|--|
| Supply | 4.75-15V DC with reverse polarity protection 9-60V DC | 8-28V DC with reverse polarity protection |
| Current consumption | 8mA 4.75-15V DC 6mA 9-60VDC | 3mA at 8-24V DC 8mA at 28V DC |
| Count input | High: 4-60V DC Low: 0.7V DC 10kHz edge triggered (negative edge) | 8-28 V DC |
| Reset input | High: 4-60V DC Low: 0.7V DC 1ms edge triggered (positive edge) | 8-24V DC pulse length min. 500ms |
| Max. Count frequency | 100 Hz | |
| Display | 7-digit, figure height 6 mm (0.24in) | 6-digit, figure height 5mm (0.20in) |
| Power supply | 10-30 V DC, galvanically isolated with reverse polarity protection | 8-28V DC, galvanically isolated with reverse polarity protection |
| Data backup | EEPROM | |
| Housing | Dimension 18.4 x 32.4 mm [0.72 x 1.28in] Color: black | Dimension 19 x 33 mm [0.75 x 1.3in] Color: black |
| Operating Temperature | -40-+80°C [-40-+176°F] | -40-+85°C [-40-+185°F] |
| Humidity | 95 % RH +32 C for 2 hours | |
| EMC | EN 55011 class B EN 61000-6-2, EN 61000-6-3, EN 61326-1 | According to EC EMC directive 89/36/EWG |
| Interference emission | EN 50081-2/EN 55 011 Class B | |
| Interference resistance | EN 61000-6-2 | |
| Weight | Approximately 8g (0.28oz) | |
| Memory capacity | CMOS EEPROM. Nonvolatile memory has data retention in excess of 10 years without power. | |
| Certification | RoHS, CE | |

Part Number

K190 4.75 - 15V DC, 7-digit LCD, PCB Mount Counter

K191 9 - 60V DC, 7-digit LCD, PCB Mount Counter

K192 8 - 28V DC, 6-digit LCD, PCB Mount Counter LCD PCB Mount Counter



Trumeter (The Americas)
6601 Lyons Rd, Suite H-7
Coconut Creek, Florida
FL 33073,
USA
Tel: +1 954 725 6699
Email: sales.usa@trumeter.com

Trumeter (Europe)
Pilot Mill
Alfred Street
Bury,
BL9 9EF
Tel: +44 161 674 09
Email: sales.uk@trumeter.com

Innovative Design Technologies Sdn. Bhd
Lot 5881, Lorong Iks Bukit Minyak 1
Taman Perindustrian Iks, 14000 Bukit Tengah
Penang, Malaysia
Web: www.idtworld.com
Tel: + 604 5015700
Email: sales.mv@idtworld.com