

K19X

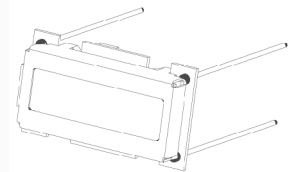
LCD Counter Module for PCB Mount



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

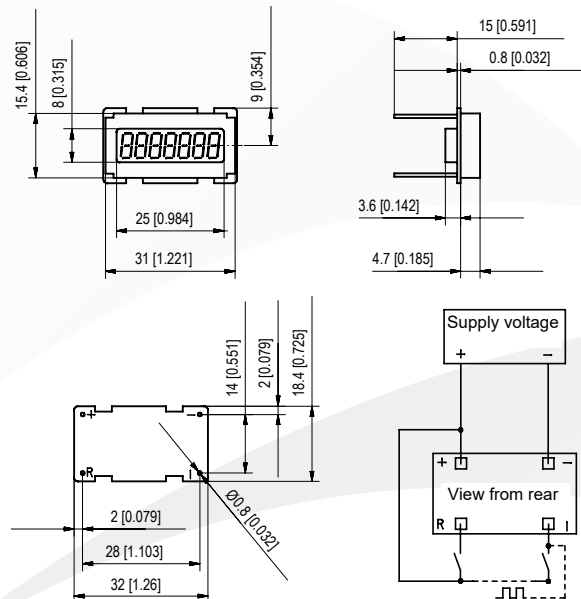
- Suitable for portable devices, vending and gaming machines, printers and copiers
- Can be used for simple counting, length and distance measurement
- Wide temperature range and wide voltage supply range
- Very high reliability
- Small size and low cost
- Low operating current
- Very high shock and 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

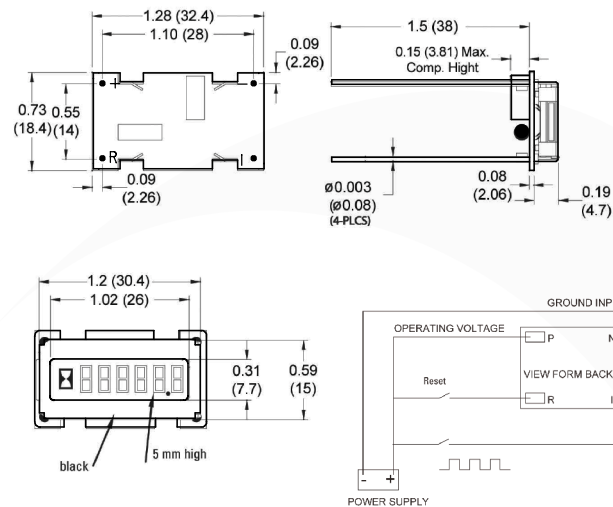
	K190/K191	K192
Supply	4.75-15V DC with reverse polarity protection 9-60V DC	8-28V DC with reverse polarity protection
Current consumption	8mA 4.75-15V DC 6mA 9-60VDC	3mA at 8-24V DC 8mA at 28V DC
Count input	High: 4-60V DC Low: 0.7V DC 10kHz edge triggered (negative edge)	8-28 V DC
Reset input	High: 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	

Dimensions and Wiring

K190/K191



K192



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

