

Pulse counters, electronic

LCD modules	Adding, 7 digits (DC)	190
-------------	-----------------------	-----



The single-channel count module type 190 for PCB mounting, with 2 voltage ranges (4.75 ... 15 and 9 ... 60 V DC) and large 7-digit LCD display, boasts a very wide temperature range.

This ensures the device is extremely robust and suitable for many application areas, even under the harshest operating conditions.



DC 4.75...60 V	max. 10 kHz	PNP	High shock resistance	Temperature range -40°...+80°C	PCB mount	LCD display 7 LCDs	Electrical reset
Power supply	Max. count frequency	Input type					

Powerful

- Count frequency up to 10 kHz.
- 7-digit LCD display, 6 mm high.
- Low operating current.
- Wide operating voltage and temperature range.
- Very high shock and vibration resistance.

Simple

- Non-volatile memory (no battery).
- Single channel count input.
- Electrical reset.
- Very high reliability.
- Small size and very competitive price.

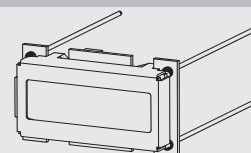
Order no.

Power supply
4.75 ... 15 V DC
9 ... 60 V DC

Order no.
6.190.012.F00 ¹⁾
6.190.012.G00

Art. no.
162 135
162 136

Delivery specification
· LCD counter module type 190
· Operating instructions



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

¹⁾ Stock types

Pulse counters, electronic

LCD modules	Adding, 7 digits (DC)	190
--------------------	------------------------------	------------

Technical data

General technical data

Display	7 digits, LCD display, figure height 6 mm [0.24"]
Data backup	EEPROM
Memory	CMOS EEPROM non-volatile memory up to 10 years data backup
Operating temperature	-40°C ... +80°C [-40°F ... +176°F] (non-condensing)
Working temperature	-20°C ... +80°C [-4°F ... +176°F] (non-condensing)
Storage temperature	-50°C ... +90°C [-58°F ... +194°F]

Inputs

Count input	HIGH	4 ... 60 V DC
	LOW	0 ... 0.7 V DC
max. counting frequency		10 kHz, edge triggered (negative edge)
Reset input	HIGH	4 ... 60 V DC
	LOW	0 ... 0.7 V DC
pulse length		1 ms edge triggered (positive edge)

Electrical characteristics

Power supply	4.75 ... 15 V DC with reverse polarity protection 9 ... 60 V DC
Current consumption	8 mA at 4.75 ... 15 V DC 6 mA at 9 ... 60 V DC
EMC standards	EN 55011 class B EN 61000-6-2, EN 61000-6-3, EN 61326-1

The module must be protected against inductive voltage spikes and high energy noise interference.

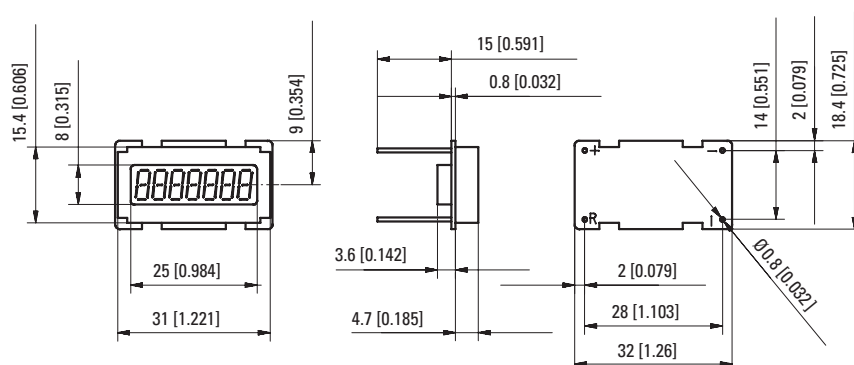
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Mechanical characteristics

Housing	dimensions	18.4 x 32.4 mm [0.72 x 1.28"]
	color	black
Weight		approx. 8 g [0.28 oz]
Shock resistance acc. to EN 60068-2-27		550 m/s ² , 11 ms
Vibration resistance acc. to EN 60068-2-6		50 ... 200 m/s ² , 10 ... 80 Hz

Dimensions

Dimensions in mm [inch]



Terminal assignment

