

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.





















Input type High shock resistance

erature PCB mount

LCD display

Electrical reset

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.

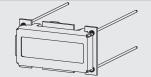
Order no.

Power supply 4.75 ... 15 V DC 9 ... 60 V DC Order no.

6.190.012.F00 ¹⁾ 6.190.012.G00

Delivery specification

- · LCD counter module type 190
- Operating instructions





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Technical data

General technical data			
Display	7 digits, LCD display, figure height 6 mm [0.24"]		
Data backup	EEPROM		
Memory data backup	CMOS EEPROM non-volatile memory up to 10 years		
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]		

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.

Mechanical characteristics			
Housing	dimensions color	18.4 x 32.4 mm [0.72 x 1.28"] 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/s², 10 80 Hz	

Dimensions

Dimensions in mm [inch]

15 [0.591] 0.8 [0.032] 15 [0.591] 0.8 [0.032] 15 [0.591] 0.8 [0.032] 25 [0.984] 31 [1.221] 4.7 [0.185] 28 [1.103] 32 [1.26]

Terminal assignment

