NOTE: The product meets the requirements of CE and UL. All specifications and safety instructions described in the operating instructions must be observed.

Notes on Product Marking

Optimizing the Measuring Accuracy

Inputs and Outputs

Signal | Pin | Description | Cable PC1750-e
--- | --- | --- | ---
V | 3 | Supply voltage (+11 ... +30 VDC) | Red
EQ | 4 | System power supply, switch signals (Laser on/off, Zero, Limits) | Black
ANL | 6 | Analogue output | White

- Current 4 ... 20 mA (Ri = 5 / 6 V / 20 mA)
- Voltage 0 ... +10 V (Ri = 50 Ohm, 1 ... 5 mA)

ANL (A) Reference potential for analogue output

Switching output 1 | EnL/Lt | 1 | Internal or external programmable switching characteristic: (NPN, PNP, Push-Pull) | Red and blue
Switching output 2 | Sync | 2, 3 | Symmetrical switching characteristic (Master or Slave) | White and green
Switching output 3 | Sync | 4, 5 | Symmetrical switching characteristic (Slave) | Blue and black
Switching output 4 | Sync | 6, 7 | Symmetrical switching characteristic (Slave) | Pink and grey
Switching output 5 | Sync | 8, 9 | Symmetrical switching characteristic (Slave) | Green and yellow

Opto 1760 (supplied as semiconductor laser with a wavelength of 670 nm (visible.) The lasers fall within laser class 2.

Proper Environment

Protection class: IP65 (applies only when sensor cable is plugged in)

Lasers are excluded from the protection class. Contamination of the lasers causes impairment or failure of the function.

- Temperature range: +0 ... +50 °C (+32 ... +122 °F)

- Humidity: 5 ... 95% RH (non-condensing)

- Mechanical stress: Avoid shock and vibration to the sensor. Protect the sensor cable against damage.

Warning: Avoid unnecessary laser radiation to be exposed to the human body. Switch off the sensor for cleaning and maintenance, for system maintenance and repair if the sensor is integrated into a system. Caution - use of controls or adjustments or performance of other steps that those described may cause harm.

- Laser Safety

Only for USA
RS422 Connection with USB Converter IF2001/USB
Cross the lines for connections between sensor and PC.

Connect or disconnect the D-sub connection between RS422 and USB converter when the sensor is disconnected from power supply only.

Sensor

Cable/Supply

Pin 6 = 5 mA, with pin 6, the laser is off.

Sensor supply

Cable/Supply

Pin 9 is not connected with pin 6, the laser is off.

Analog Output

Voltage output 0 ... 5 V or 0 ... 10 V

Connect the input to

GND (Pin 9)

depends on the programming of the input and on the timing of the input signal.

The multi-function input enables triggering, zero setting/mastering and teaching. The function

Components

Mount the sensor and connect the components.

Source

Cable/Supply

Interface

Quick Guide

Access via Web Interface

Interactive web-pages for programming the sensor now appear in the web browser. The sensor is active and supplies measurement values. The ongoing measurement can be opened by means of function buttons in the area Chart type.

Store the Settings

Link to the menu Settings > System settings > Load & Stores or click the Save settings button.

You can find more information about the sensor in the operating instructions. They are online at


Sensor TOOLTIP

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