

# Laser Receiver

## Specifications

Type	Laser receiver module
Laser wavelength	400 – 1100 nm
Measurement area	Linear, 190 mm
Measurement resolution	3 mm
Data output	Detected beam position +95...-95 mm
Digital inputs	4 (PNP)
Digital outputs	4 (+24V, 3A)
Interfaces	RS-232 CANopen (SAEJ1939, DeviceNet on request)
Main processor	DSP56F805 Digital Signal Processor
Program memory	32 kBytes NVM
CAN bus transceiver	Philips TJA1050
Operating voltage	9 - 30V (compliant with ISO/DTR 7637 class 4)
Operating temperature	-40...+85°C (-40...+185°F)
Dimensions	250 x 52 x 78 mm 9.84 x 2.04 x 3.07 inches
Protection Class	IP65 (IP67 available on request)



Also available...a Digital I/O Module with 16 inputs and 16 outputs (see Datasheet#TD6100MV) for controlling of external devices, such as warning lights and horns, and for reading additional data from other sensors.

## Product description

The laser receiver module is designed for detection of a laser beam position in one dimension. The module can detect both continuous and pulsed laser beams. The pulsed laser beam pulse interval can be set to the module's parameters. The module gives the detected position in millimeters measured from the module center line. The measurement resolution is 3 mm. In addition there are 4 digital outputs (+24 V / 3 A) and four PNP-type digital inputs, which can be used to control external devices, for example warning signals, horn etc. (with customer-specific software).

The 9...30 VDC power supply input section is tested against the very strict ISO/DTR 7637 class 4 standard. The module is available with CANopen protocol. Other CAN level protocols such as SAE J1939 are available on request. For industrial applications, DeviceNet protocol is available on request. The CAN bus node ID is changed through the RS-232 interface using normal terminal software.

The standard module includes 4-pin spring loaded connectors for power supply and CAN bus only. It is housed in a rugged cast aluminum housing with military style connectors.

## Applications

Aligning of work machines according to a laser plane

- Height reference point calculation
- Laser beam detection – mobile equipment

## Order code

MVLRX	-	CO
CAN protocol		
CO = CANopen		
SJ = SAE J1939		
DN = DeviceNet		

TD6106V-0611/04

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