CLS-2 Instruction Manual

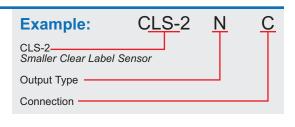
Features and Options:

- One button AUTOSET (Gap Set)
- Adjustable Threshold
- Cable and Connector (M12 & M8) Versions
- Removable Stainless Steel Gap Plate
- Durable and Robust Anodized Aluminum Housing
- Bottom or side mounting configurations



How To Specify

- 1.Select Sensor: CLS-2 Smaller Clear Label Sensor
- **2. Select Output Type** N = NPN P = PNP L = NPN/PNP
- **3.Select Connection Type:** Blank = 4-wire 6.5ft cable (2.0m) C = 4-pin M12 connector M8 = 4-pin M8 connector



Features

	ALIGNMENT MARKS
AUTOSET INDICATOR	Indicates location of sensing machinism.
Flashes GREEN during AUTOSET.	
OUTPUT INDICATOR	1. Push and hold with gap in view for two seconds for AUTOSET.
Illuminates RED when outputs are ON.	\rightarrow output 2. Tap UP (\triangle) to reduce threshold.
Flashes when short circuit or overload detected.	WTORE A
	LT/DK [†] BUTTON
	↓ 1. Push and hold to toggle between light on or dark on
	2. Tap DOWN ($\stackrel{+}{\bigtriangledown}$) to increase threshold.
	· .

Quick Start

Simple Setup Start \rightleftharpoons Put the Gap in view, press and hold the AUTOSET. This will result in a perfect setup 99% of the time. If you have any false triggers, tap UP (\triangleq) to reduce threshold, or tap DOWN (\ddag) to increase threshold.

Specifications

SUPPLY VOLTAGE

- 12 to 30Vdc
- Polarity Protected
 Note: For use in Class 2 Circuits

CURRENT REQUIREMENTS

• 70mA @ 12Vdc, 35mA @ 30Vdc

DIGITAL OUTPUTS

- (1) NPN and/or (1) PNP (depending on model) open collector output 150mA Max; <2V Residual Voltage
- All outputs are continuously short circuit protected

REMOTE AUTOSET INPUT

• Active high (PNP) or active low (NPN), depending on model (1mA) *Note: Input not available on "L" models*

DIAGNOSTIC INDICATORS

- Green LED AUTOSET Indicator-Illuminates when sensor is powered "ON"; flashes upon AUTOSET adjustment
- Red LED Output Indicator– Illuminates when the sensor's output transistors are "ON".

Note: If output LED flashes on power up, a short circuit condition exists.

PUSH BUTTON CONTROL

- Two (2) push button controls
- AUTÒŚĖT (for Gap AUTOSET)
- LT/DK (toggles between light on or dark on)
- Manual threshold adjustment

HYSTERESIS

Dynamic – adjusted by AUTOSET

RESPONSE TIME

• 225µs

• 75µs

AMBIENT TEMPERATURE

• 4°C to 50°C (39°F to 122°F)

RUGGED CONSTRUCTION

- Chemical resistant, high impact Aluminum housing
- Conforms to heavy industry grade CE requirements
- Waterproof ratings: IP65*
 *Presence of water on transducers will prevent sensor from functioning. Full functionality will be restored once transducers are dry.



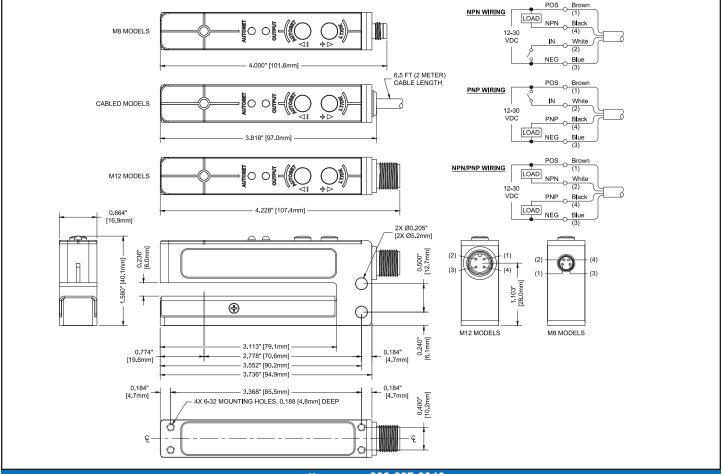
CONNECTIONS

- 4-Wire 6.5ft cable (2.0m)
- 4-Pin M12
- 4-Pin M8 connector

RoHS Compliant Product subject to change without notice

Connections and Dimensions

CLS-2 Smaller Clear Label Sensor



www.ttco.com • 800-237-0946