工采网 iSweek.cn

Specifications

SUPPLY VOLTAGE

- 10 to 30 VDC
- Polarity Protected
- 45 milliamps (exclusive of load)

OUTPUT TRANSISTORS

- (1) NPN and (1) PNP sensor output transistors
- Outputs sink or source up to 150 milliamps
 (current limit)
- · All outputs are continuously short circuit protected

REMOTE AUTOSET INPUT

 Opto-isolated momentary sinking input (10 milliamps)

RESPONSE TIME

- MEP: Light/Dark state response = 175 microseconds
- MEP45: Light/Dark state response = 45 microseconds

LED LIGHT SOURCE

White LED provides detection of registration
 marks of the widest variations of contrasting colors

PUSH BUTTON CONTROL

- AUTOSET™
- Manual Adjustments
- Set status of 5 options: 5) Lock, 4) Output Invert, and Pulse Stretchers 3) 10ms, 2) 25ms, and 1) 50ms

- HYSTERESIS
 - Set for high resolution ... less than one bar on the contrast indicator

LIGHT IMMUNITY

 Responds to sensor's pulsed modulated light source ... immune to most ambient light and strobes, including indirect sunlight

DIAGNOSTIC INDICATORS

- 5-LED Bargraph functions in one of two modes:
 1. Contrast Indicator... Displays scaled reading of sensor's response to contrasting light levels (light to dark)
- Status Indicator...Displays status of 5 selectable options
- Red LED output indicator ... Illuminates when the sensor's output transistors are "ON" NOTE: If Output LED flashes, a short circuit
- condition existsAmber LED...Illuminates when in the options select
- mode

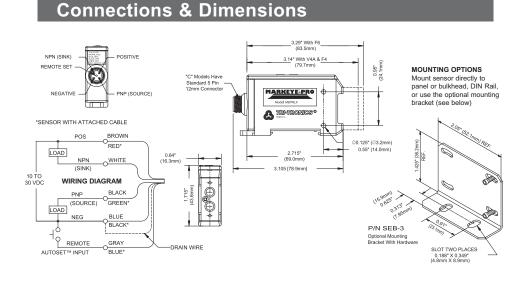
 Yellow LED...Illuminates when Lock feature is activated

AMBIENT TEMPERATURE

–40°C to 70°C (-40°F to 158°F)

RUGGED CONSTRUCTION

- Chemical resistant high impact polycarbonate housing
- Industry Ratings: NEMA 4X, 6P, IP67 (€ ເ⊕)us



M<u>ARKEYE[®] P</u>RO

Installation Manual

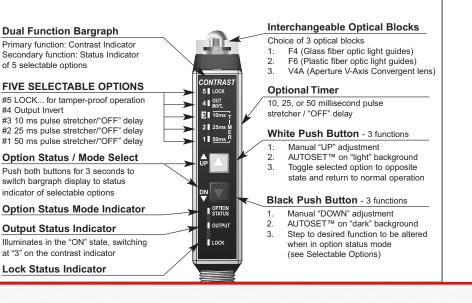
High-Resolution Registration Mark Sensor



The MARKEYE®-PRO

sensor is a high performance photoelectric sensor that can be adjusted by a single push of a button. As a result, there is no guess work on the part of the operator. Now you can throw away the screwdriver and the manual!

Features & Setup Instructions



ISweek www.isweek.cn

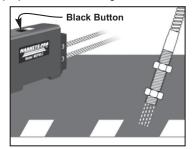
公司名: 深圳市工采网络科技有限公司 电话: + 86-755-83289036

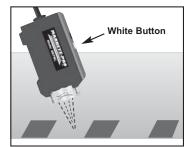
地址: 广东省深圳市南山区高新南一道中国科技开发院3号楼16层 传真: + 86-755-83289052 邮箱: sales@isweek.cn

工采网 iSweek.cn

SETUP Instructions

For best sensing results, it is recommended that the axis of the sensing tip be within 10 to 15 degrees of perpendicular to the target mark.





Light Mark/Dark Background Place the background in view and press the "Black" button.

Dark Mark/Light Background Place the background in view and press the "White" button.

NOTE: Use White "Up" or Black "Down" buttons to tweak adjustment.

Remote AUTOSET™: To remotely AUTOSET the sensor, apply a momentary contact closure from the AUTOSET™ input wire to negative as shown in the wiring diagram. A remote AUTOSET™ command will duplicate the last manual AUTOSET™ command.

Selectable Options

The **MARKEYE**[®]-**PRO** Sensor is equipped with the following 3 optional features that can help to adapt the sensor to specific application requirements.

Lock – When this feature is enabled the sensor becomes tamper proof (Note: The remote AUTOSET is not affected by the Lock).

Output Invert – Allows the sensor to be programmed for the output transistors to be "ON" or "OFF" when the registration mark comes into view.

Timer – When the "OFF" delay pulse stretcher is enabled, the output duration is extended by 10, 25, or 50 milliseconds (not additive). Enabling the Timer allows ample time for the controller to respond. The time durations of the gap between marks must be less than the selected delay.

How to select options:

- Press and hold the White and Black buttons simultaneously for 3 seconds. The 5-LED bargraph will go into a flashing routine and the 5-LED bargraph switches to a status indicator. The status of the selectable options will be displayed and the amber Option Status indicator will be lit.
- 2. Step to the desired function to be changed by "tapping" the Black button. For example, the first "tap" will step to the "Lock" select function. To indicate the "Lock" function has been selected, the #5 LED will flash. Once the LED next to the option is flashing, depress the White button to change the status to the opposite state. The sensor will then display the choice briefly before returning to normal operation. This sequence must be repeated for each function to be altered. If you make no change in the status of any control function, "tap" the Black button a sixth time, or wait 5 seconds to allow the sensor to automatically return to the preexisting selections.

Options

LED	FEATURE	ON/OFF	STATUS
#5 LED	Lock	On Off ✓	The manual up/down and Auto-Set adjustments are disabled. The manual up/down and Auto-Set adjustments are enabled.
#4 LED	Output Invert	On Off ✓	Output is "ON" when mark is in view. Output is "OFF" when mark is in view.
#3 LED	10ms Timer	On Off ✓	10ms Timer/Pulse Stretcher is enabled. 10ms Timer/Pulse Stretcher is disabled.
#2 LED	25ms Timer	On Off ✓	25ms Timer/Pulse Stretcher is enabled. 25ms Timer/Pulse Stretcher is disabled.
#1 LED	50ms Timer	On Off ✓	50ms Timer/Pulse Stretcher is enabled. 50ms Timer/Pulse Stretcher is disabled.

✓ = Factory presets

Diagnostics

The **MARKEYE®-PRO** Sensor's 5-LED Contrast Indicator provides "at-a-glance" analysis of the sensor's response to the "**light state**" vs. "**dark state**" sensing condition. This device is not only useful in static conditions for alignment purposes, but is also functional during dynamic conditions when input events are ongoing.

NOTE: If the Contrast Indicator is cycling repeatedly, check to insure that the gray wire is not shorted to ground.

Output Indicator

Red LED illuminates when output transistor is in the "ON" state. The "light state" reading must exceed "3"

- The "dark state" reading must fall below "3"
- NOTE: If the red output indicator flashes while the output transistor is in the "ON" state, one of the output leads is shorted (NPN to positive or PNP to negative/shield).

İSweek www.isweek.cn

公司名: 深圳市工采网络科技有限公司