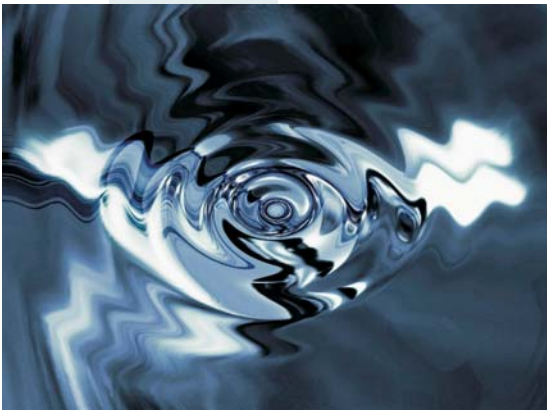


INPROX sensors



advanced **color** recognition **system**
industrial quality & process control



MLC15
3.5, 5.5, 8mm spot size diameters

INPROX sensors

industrial grade environmental duty

With a sturdy aluminum housing the MLC15 series color system is engineered to resist difficult production environments where temperature, dirt and other typical contaminants may impede performance.

Color Scope 3© software

This advanced software platform allows the customer to control all aspects of color, contrast, power, event and output; down to the ground level of operations.

open file network

INPROX Sensors offers an open file network that can run in real time and deliver unlimited individual files for an unprecedented level of access and customization.

easy to set up

Color Scope 3 offers hassle-free installation and communication: RS232/USB software setup.+ PLC interfaces; and EEPROM stand alone operations after initial program.

stores data for up to 15 colors at a time

With the ability to sort and recognize over 10,000 colors variations the MLC15 EEPROM holds individual data for up to 15 colors or frequency control for color contrast control. There is no need to reprogram or have operators teach-in time consuming color data.

(for up to 255 individual colors try our MLC255 system)



INPROX sensors

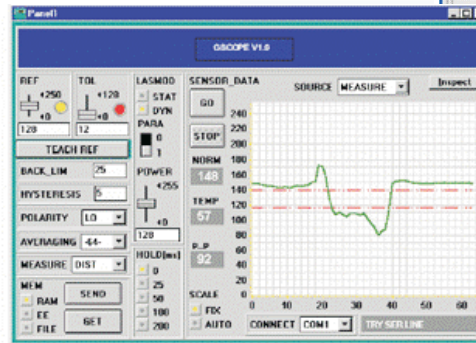
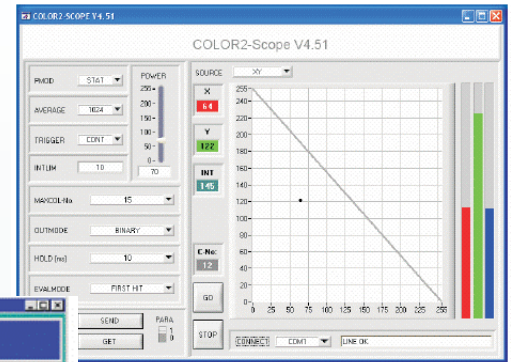
28 State Street
Suite 1100
Boston, MA 02109
877 INPROX 7
877 467 7697
617 573 5158
617 507 2665 fax
sales@inproxsensors.com

www.inproxsensors.com

INPROX sensors

advanced color recognition system

multi-function graphing platform

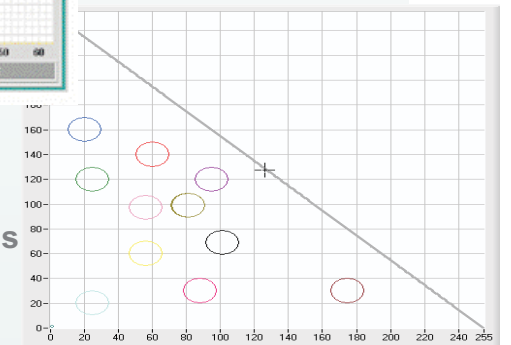


5 Event Modes

- ✦ 15 individual color recognition capabilities (EEPROM)
- ✦ unlimited individual color recognition capabilities (File)
- ✦ contrast frequency control for difficult color bleed applications
- ✦ intensity value recognition independent of color change
- ✦ sort sequence & trigger event capabilities

8 recognition-setup modes

- « XY
- « RGB (multiple reads)
- « Raw R (contrast structural control)
- « Raw G (contrast structural control)
- « Raw B (contrast structural control)
- « INT (intensity/gloss control)



Specifications Overview

- ¥ 28 kHz maximum response speed
- ¥ RS232/USB connection via color scope software
- ¥ 32,678 scans per second
- ¥ 8 bit A/D conversion
- ¥ Real-Time or EEPROM intellisense monitoring

color scope 3© software included

INPROX sensors

advanced color recognition system

| | | |
|------------------------------------|--|--|
| Electrical data | Supply voltage | 12-30 VDC, reverse polarity and overload protected |
| | Current consumption | typ. 180 mA |
| | EMC test | acc. to IEC - 801 |
| | Interface | RS232, parameterizable under Windows® |
| | Averaging | over max. 32768 values |
| | Colour memory | non-volatile EEPROM with all parameters |
| | Connection to SPC | 8-pin flange socket (Binder series 217) |
| | Connection to PC | 5-pin flange socket (Binder series 217) |
| Measuring data | Target distance | typ. 25 mm- 95 mm |
| | Light spot size at 38 mm distance | Type 10/50/3.5 : Ø 3.5 mm MLC1535E |
| | | Type 10/30/5.5: Ø 5.5 mm MLC1555E |
| Type 10/30/8: Ø 8 mm MLC1580E | | |
| Reproduceability | in the x,y color range 1 digit at 8 bit A/D conversion (shown with Color-Scope) | |
| Light source | White light LED | modulated 100 kHz |
| Receiver | 3-colour photodiode | (red, green, blue), RGB- and intensity evaluation |
| Outputs | OUT 0 to OUT 3 | wiring see connection table |
| | Switching frequency | max. 2 kHz with 15 teach-in colours |
| | | max. 5 kHz with 1 teach-in colours, |
| | | 28 kHz with contrast detection (intensity values) |
| | Switching current | max. 100 mA, short-circuit protected |
| | Pulse lengthening | adjustable under Windows® 0 ms ... 100 ms |
| Switching state display | Visualisation by means of 4 yellow LEDs | |
| Data on ambiente conditions | Operating temp. | -20°C ... +55°C |
| | Storage temp. | -20°C ... +85°C |
| | Ambient light | up to 5000 Lux |
| | Protection class | IP64 |
| Housing | Aluminium | anodized in blue |

