

Color Sensing
Digital Fiber Sensor
E3X-DAC-S

OMRON

Easy and Reliable

The Fiber Sensor That Sees in Color



realizing


Color Sensing

Color-sensing Engine

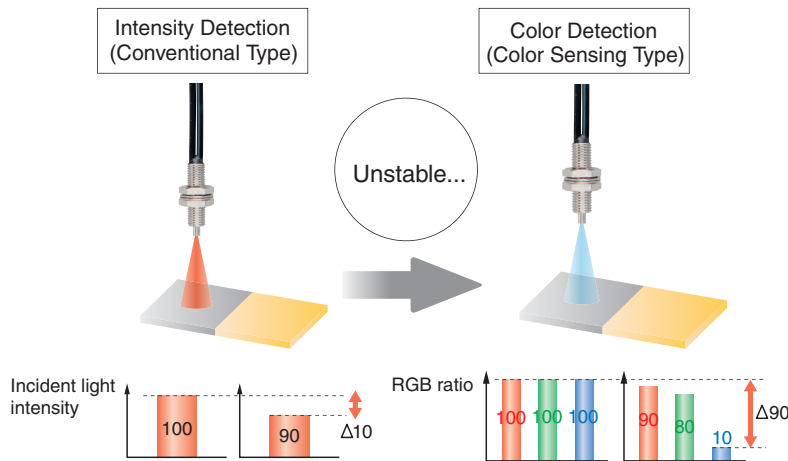


Color Sensing

Easy and Reliable ... Featuring a Color-sensing Engine

The color-sensing engine uses three parameters, RGB, to process incident light. It detects color information from the workpiece for precise detection of color differences.

Precise Detection

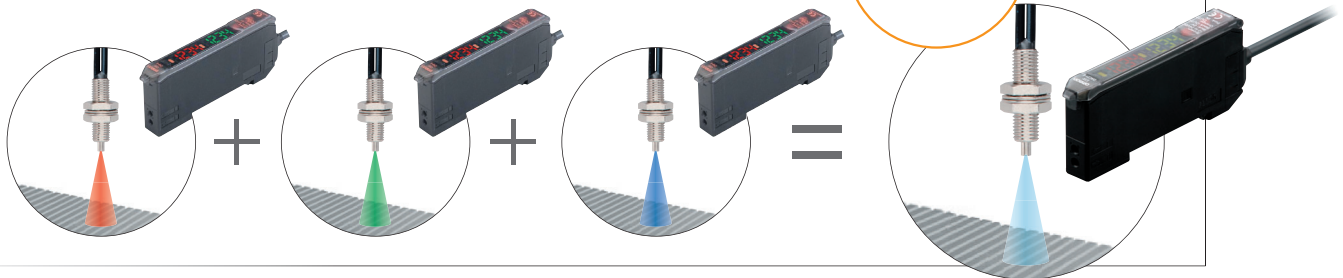


Color VS. Detection Capability

	White	Red	Yellow-red	Yellow	Yellow-green	Green	Blue-green	Blue	Blue-violet	Violet	Red-violet	Black
White	○	○	○	○	○	○	○	○	○	○	○	○
Red	○	○	○	○	○	○	○	○	○	○	○	○
Yellow-red	○	○	○	○	○	○	○	○	○	○	○	○
Yellow	○	○	○	○	○	○	○	○	○	○	○	○
Yellow-green	○	○	○	○	○	○	○	○	○	○	○	○
Green	○	○	○	○	○	○	○	○	○	○	○	○
Blue-green	○	○	○	○	○	○	○	○	○	○	○	○
Blue	○	○	○	○	○	○	○	○	○	○	○	○
Blue-violet	○	○	○	○	○	○	○	○	○	○	○	○
Violet	○	○	○	○	○	○	○	○	○	○	○	○
Red-violet	○	○	○	○	○	○	○	○	○	○	○	○
Black	○	○	○	○	○	○	○	○	○	○	○	○

A high-power white LED and a multi-RGB processing system combine to cover all RGB wavelengths, enabling easy and accurate detection of workpieces without having to use a different light source to match each one.

No Need to Select



Changes in the three parameters are processed as a ratio, so they are not affected by light-intensity variations due to workpiece movement.

Resists Movement

