

## Basic features

Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Color sensor
Series	33M
Style	Square Straight connection

## Display/Operation

Adjuster	no
Setting	IO-Link

## Electrical connection

Connection	Connector, M8x1-Male, 4-pin
Polarity reversal protected	yes

## Electrical data

No-load current $I_0$ max. at $U_e$	60 mA
Operating voltage $U_b$	21.6...26.4 VDC
Rated operating voltage $U_e$ DC	24 V
Ripple max. (% of $U_e$ )	10 %

## Environmental conditions

Ambient temperature	10...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
Protection degree	IP54

## Material

Housing material	Aluminum
Surface protection	Anodized

## Mechanical data

Dimension	21 x 58.3 x 58 mm
Mounting	Screw M4

## Optical features

Ambient light max.	5000 Lux
LED group per IEC 62471	Exempt Group
Light type	White light
Principle of optical operation	Diffuse sensor
Wave length	400...700 nm

Output/Interface

Interface  
Switching output

IO-Link 1.1  
Push-pull

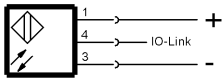
Remarks

The sensor is functional again after the overload has been eliminated.  
Reference object (target): gray card, 100 x 100, 18 % remission, axial approach.  
For additional information, refer to user's guide.  
Order accessories separately.  
Do not press key using a pointed tool.  
All sensor functions can be set and read through the IO-Link interface (COM mode). The colors/color ranges can be read individually through IO-Link.

Connector Drawings



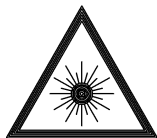
Wiring Diagrams



Opto Symbols



Warning Symbols



LED light– DO NOT LOOK INTO THE BEAM!

Exempt Group per IEC 62471:2006-07