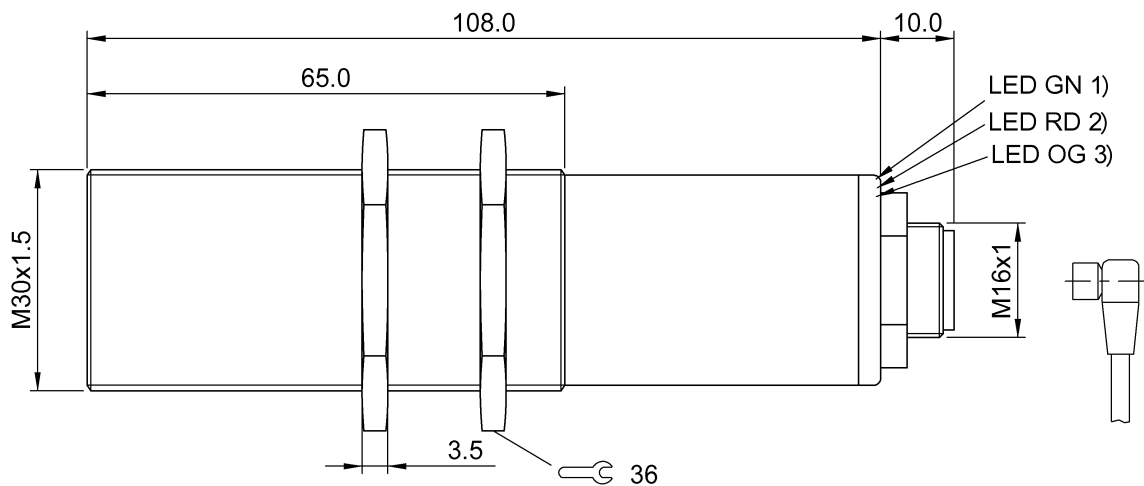
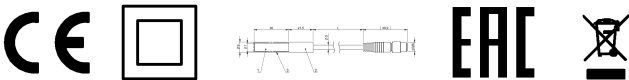




1) Operating voltage, 2) Output function, 3) Connection with PC



Basic features

Additional features	15 color channels, binary coded on 4 switching outputs
Approval/Conformity	cETLus CE EAC WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Color sensor
Series	30M
Style	Cylinder Straight optics

Display/Operation

Adjuster	no
Display	Output function - LED red LED green: Power Connection to PC: LED orange

Electrical connection

Connection	Connector, M16x1
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Input function	Trigger
No-load current I_o max. at U_e	40 mA
Operating voltage U_b	12...30 VDC
Protection class	II
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ripple max. (% of U_e)	10 %
Switching frequency	1500 Hz
Turn-off delay t_{off} max.	0.33 ms
Turn-on delay t_{on} max.	0.33 ms
Utilization category	DC -13
Voltage drop U_d max. at I_e	2 V

Environmental conditions

Ambient temperature	-10...55 °C
EN 60068-2-27, Shock	Half-sinus, 30 g_n , 11 ms, 3x6
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Interface

Duration of time function	10/20/.../100 ms (10 steps)
Interface	RS232
Switching output	4x PNP/NPN normally open (NO)
Time function	switch-off delay

Material

Housing material	Brass, nickel-plated
Material sensing surface	Glass
Surface protection	nickel-plated

Mechanical data

Dimension	Ø 30 x 118 mm
Mounting part	Nut M30x1.5

Optical features

Ambient light max.	5000 Lux
Beam characteristic	Focused
Color resolution tolerance	0.5/1/.../50 % (100 steps)
Light spot size	Ø 8 mm at 50 mm
Light type	White light
Principle of optical operation	Diffuse sensor, fixed focus
Wave length	400...700 nm

Range/Distance

Range	30...100 mm
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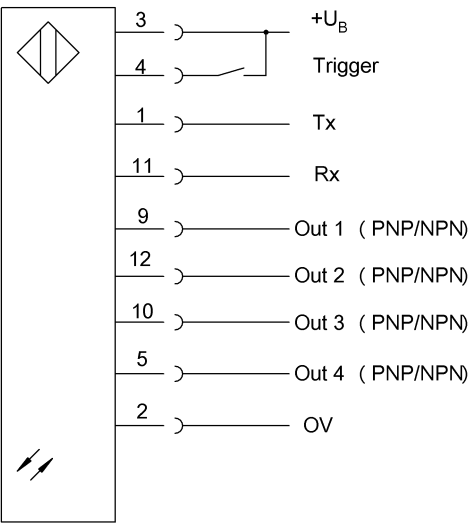
Remarks

Order accessories separately.
The sensor is functional again after the overload has been eliminated.
For additional information, refer to user's guide.
Parameters that can be set by the PC: color detection mode, light strength, channel on/off, RGB values, color tolerance level, averaging mode, trigger mode, PNP/NPN, delay time.
Recommended working distance: 50mm.

Connector Drawings



Wiring Diagrams (Schematic)



Opto Symbols

