

CSX-WNF1142282ZZZZ

CSS/CSX High Speed

COLOR SENSORS

SICKSensor Intelligence.



Ordering information

Туре	part no.
CSX-WNF1142282ZZZZ	1120182

Other models and accessories → www.sick.com/CSS_CSX_High_Speed

Illustration may differ



Detailed technical data

Features

Parameter presettings	None
Housing design	Large
Dimensions (W x H x D)	30 mm x 53 mm x 78.5 mm
Light source	LED, RGB ¹⁾
Light emission	Short device side
Light spot size	2 mm x 4 mm
Light spot direction	Vertical ²⁾
Wave length	460 nm, 530 nm, 625 nm
LED risk group marking	1
Color mode	C (Color) C + I (Color + Illumination)
Sensing distance	13 mm
Sensing distance tolerance	± 5 mm
Teach-in mode	Single value teach-in Multi value teach-in
Output mode	4 colors in standard mode/best fit mode 15 colors in coded mode
Output (channel)	4 x hardware switching outputs
Adjustment of the sensitivity	Continuous: 0 999
Available job banks	4
Safety-related parameters	
MTTF _D	263.7 years

 $^{^{1)}}$ Average service life: 100,000 h at T_U = +25 °C.

 $^{^{2)}}$ In relation to long side of housing.

Interfaces

Digital output	$Q_1 \dots Q_4$
Nu	mber 4
Digital input	ln_1 , ln_2
Nu	mber 2

Electronics

ctronics	
ply voltage	10.8 V DC 28.8 V DC ¹⁾
ple	≤ 5 V _{pp} ²⁾
rent consumption	< 120 mA ³⁾
tching frequency	13.8 kHz
ponse time	
	36 µs
er	18 µs
tching output	NPN
tching output (voltage)	NPN: HIGH = V_S / LOW $\leq 3 \text{ V}$
put current I _{max.}	100 mA ⁴⁾
ıt, teach-in (ET)	Teach: U < 2 V
ıt, blanking input (AT)	Blanked: U < 2 V
ention time (ET)	3 s, non-volatile memory
e delay	None
tection class	III
uit protection	${\sf U}_{\sf V}$ connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
nection type	
	Male connector M12, 8-pin

 $^{^{1)}}$ Limit values: DC 12 V (–10 %) ... DC 24 V (+20 %) . Operation in short-circuit protected network max. 8 A.

Mechanics

Housing material	VISTAL®
Optics material	PMMA
Weight	94 g

Ambient data

Ambient operating temperature	-20 °C +60 °C
Ambient temperature, storage	-25 °C +75 °C
Shock load	According to IEC 60068-2-27 (30 g/11 ms)
Enclosure rating	IP67
UL File No.	E181493

Connection type/pinouts

Connection type

 $^{^{2)}}$ May not fall below or exceed U_{V} tolerances.

³⁾ Without load.

 $^{^{4)}}$ Total current of all Outputs.

	Male connector M12, 8-pin
Pinouts	
WH 1	In ₁
BN 2	+ (L+)
GN 3	Q_{L1}
YE 4	Q_{L2}
GY 5	In ₂
PK 6	Q_{L3}
BU 7	- (M)
RD 8	Q_{L4}

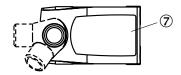
Classifications

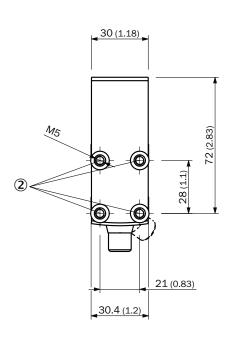
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ECLASS 5.1.4	27270907
ECLASS 6.0	27270907
ECLASS 6.2	27270907
ECLASS 7.0	27270907
ECLASS 8.0	27270907
ECLASS 8.1	27270907
ECLASS 9.0	27270907
ECLASS 10.0	27270907
ECLASS 11.0	27270907
ECLASS 12.0	27270907
ETIM 5.0	EC001817
ETIM 6.0	EC001817
ETIM 7.0	EC001817
ETIM 8.0	EC001817
UNSPSC 16.0901	39121528

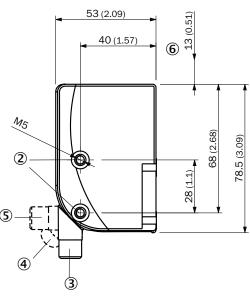
Certificates

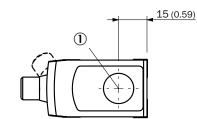
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Photobiological safety (IEC EN 62471)	✓

Dimensional drawing, sensor





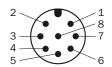




Dimensions in mm (inch)

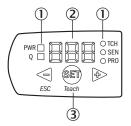
- ① Optical axis
- 2 fixing hole
- 3 M12 male connector, delivery state
- ④ M12 male connector, end stop right
- ⑤ M12 male connector, end stop left
- **6** Sensing distance
- 7 display and adjustment elements

Pinouts, see table Technical data: Connection type/pinouts



Connector M12, 8-pin, A-coded

display and adjustment elements



- ① LEDs (status display)
- ② 7-segment display
- 3 Plus/minus button

Recommended accessories

Other models and accessories → www.sick.com/CSS_CSX_High_Speed

	Brief description	Туре	part no.
Mounting syst			
	 Description: Plate K for universal clamp bracket Material: Steel Details: Steel, zinc coated Items supplied: Universal clamp (2022726), mounting hardware Usable for: W11-2, W12-3, W14-2, W18-3, W23-2, W24-2, W27-3, W30, W32, W34, W36, PL50A, PL80A, P250, UC12, LUT3, KT2, KT5-2, KT8, CS8, DT2, DS30, DS40, W12-2 Laser, W16, W26, KT5 	BEF-KHS-K01	2022718
connectors ar	nd cables		
	Connection type head A: Male connector, M12, 8-pin, angled, B-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.25 mm² 0.5 mm² Note: For field bus technology	STE-1208-W	2092036
No.	Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, unshielded Application: Uncontaminated zones, Zones with oils and lubricants, Robot, Drag chain operation	YF2A18-050UA5XLEAX	2095653

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Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

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