

TRANSPARENT OBJECT PHOTOELECTRIC SENSORS

OUTSTANDING RELIABILITY AND EASE OF ADJUSTMENT

The **TRU-C23** photoelectric sensor is ideally suited for the presence control of transparent objects. Its patented technology comprises an LED that emits polarized **UV light** and a suitable reflector. Special optics with autocollimation ensure reliable detection and no blind zone. For applications requiring the detection of thicker or larger transparent objects, the **C23 Transparent Standard** provides a highly favorable price-performance ratio.

KEY ADVANTAGES

- ✓  **IO-Link** interface available on PNP types
- ✓ Versions with stability alarm as second output
- ✓ Mutual interference immunity
- ✓ Adjustment by teach button or  **IO-Link**
- ✓ Enclosure rating IP67, Ecolab approved

C23 Transparent UV

- ✓ Extremely reliable detection thanks to strong absorption of UV light by plastic and glass material
- ✓ Easy sensor set-up, even for thinnest transparent objects
- ✓ Low environmental sensitivity minimizes threshold adjustments and maximizes uptime
- ✓ Autocollimated, polarized UV light beam eliminates blind zone, allowing detection of targets close to the sensor or through a small notch
- ✓ Sensing range up to 1,200 mm

C23 Transparent Standard

- ✓ Red polarized light source
- ✓ Calibrated sensing range up to 5,000 mm
- ✓ Sensitivity adjustment via teach button,  **IO-Link** or potentiometer

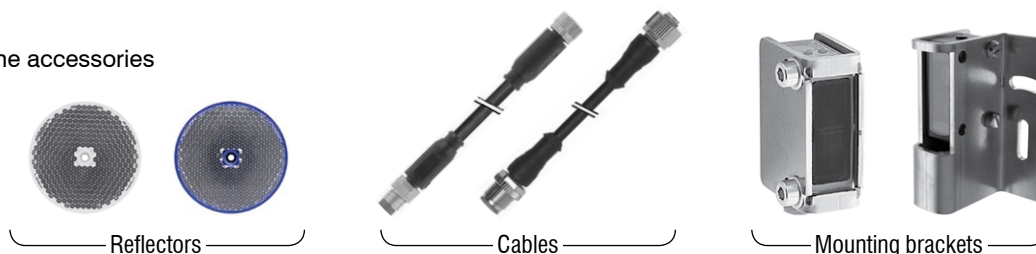


PRODUCT OVERVIEW

 IO-Link		
SERIES	C23 UV Light □ 20 × 30 × 10	C23 Red Light □ 20 × 30 × 10
Housing size mm		
Reflex (s _n mm)	1,200	5,000

ACCESSORIES

Go to page 298 to see all the accessories



Алматы (7273)495-231
Ангарск (3955)60-70-56
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COMMON FEATURES

Supply Voltage range	10 ... 30 VDC
Output	PNP Light-ON*

* Other types available: PNP, NPN, Dark-ON, Light-ON

OUTPUT

Sensor type

[TR] Transparent reflex

[xx][x]-C23PA-[xxx]-[xxx] — see p. 196

Emission type

[R] Red [U] UV

— see p. 196

Reference key on page 196

OPERATING PRINCIPLE

 Transparent reflex

ACCESSORIES



Group A: M8 3-pin
Sub-group: Field attachable connectors
Sub-group: Distribution boxes



Group B: M8 4-pin
Sub-group: Field attachable connectors



Group C: M12 4-pin
Sub-group: Field attachable connectors
Sub-group: Distribution boxes



Group D: M12 AC/DC 3-pin



Group E: Universal mounting brackets
Sub-group: Mechanical stops



Group F: Photoelectric mounting brackets



Group G: Photoelectric reflectors



Group H: Sensor tester

Go to page 298 for details



CABLES

Cable lengths available:
2 m, 5 m, 10 m
other customised lengths possible

CUBIC C23

C23 SERIES

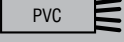
FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE
CUBIC C23 – C23 SERIES		1,200	20 × 30 (C23)	LED, UV 275 nm, Risk Group 2
		1,200	20 × 30 (C23)	LED, UV 275 nm, Risk Group 2
		5,000	20 × 30 (C23)	LED, red 630 nm
		5,000	20 × 30 (C23)	LED, red 630 nm
		5,000	20 × 30 (C23)	LED, red 630 nm
		5,000	20 × 30 (C23)	LED, red 630 nm



KEY ADVANTAGES

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	HOUSING MATERIAL	CABLE	CONNECTOR	 IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE *	ACCESSORIES (SEE PAGE 160)
	ABS			 IO-Link	1,000	-25 ... +65°C	IP67	TRU-C23PA-TMK-603	
	ABS			 IO-Link	1,000	-25 ... +65°C	IP67	TRU-C23PA-TMS-603	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	TRR-C23PA-TMK-603	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	TRR-C23PA-TMS-603	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	TRR-C23PA-PMK-603	
	ABS			 IO-Link	1,500	-25 ... +65°C	IP67	TRR-C23PA-PMS-603	

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