

Алматы (7273)495-231
Ангарск (3956)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
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Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
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Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
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Саранск (8342)22-96-24
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Смоленск (812)29-41-54
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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

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Казахстан +7(7172)727-132

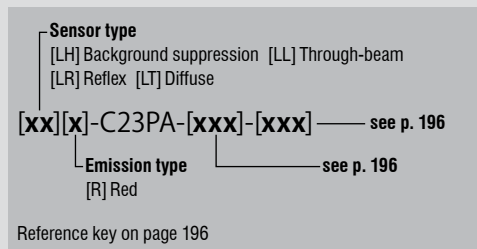
Киргизия +996(312)96-26-47

<https://contrinex.nt-rt.ru/> || cxa@nt-rt.ru

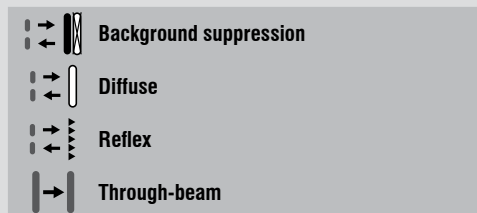
Supply Voltage range	10 ... 30 VDC
Output	PNP Light-ON*

* Other types available: PNP, NPN, Dark-ON, Light-ON/
Dark-ON, Light-ON + stability alarm, Dark-ON + stability alarm
** Pigtail versions available

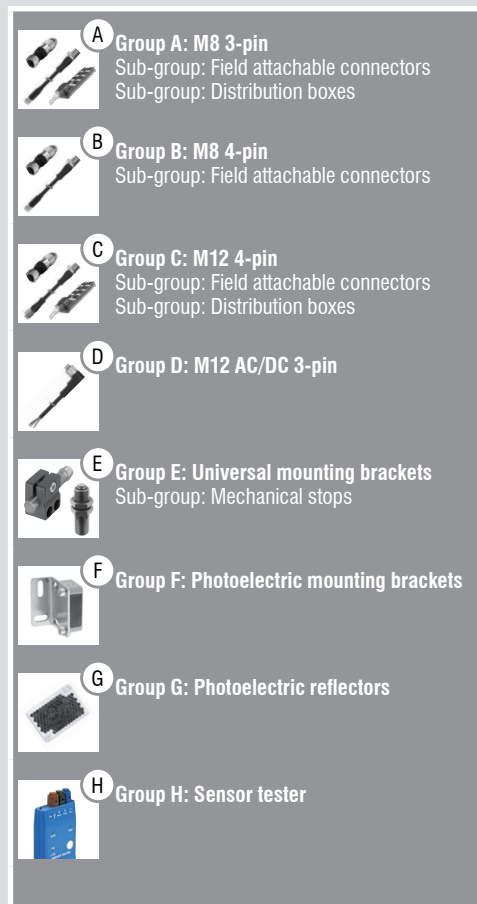
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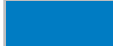
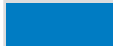
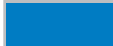
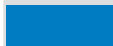
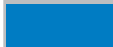
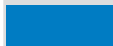
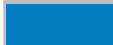
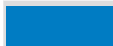
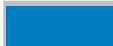
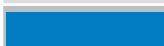


OPERATING PRINCIPLE



ACCESSORIES

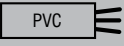
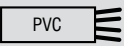
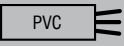
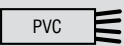
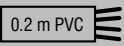
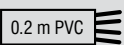
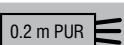
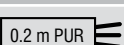
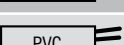
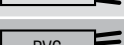
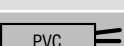


CUBIC C23						
C23 SERIES						
FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)		HOUSING SIZE (mm)	LIGHT SOURCE	
CUBIC C23 – C23 SERIES			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			300	20 × 30 (C23)	Pinpoint LED, red 640 nm	
			1,500	20 × 30 (C23)	LED, red 630 nm	
			1,500	20 × 30 (C23)	LED, red 630 nm	
			1,500	20 × 30 (C23)	LED, red 630 nm	
			1,500	20 × 30 (C23)	LED, red 630 nm	
		1,500	20 × 30 (C23)	LED, red 630 nm		
		1,500	20 × 30 (C23)	LED, red 630 nm		
		1,500	20 × 30 (C23)	LED, red 630 nm		

KEY ADVANTAGES

- ✓ First-class sensing ranges
- ✓ Small plastic housing, 20 × 30 × 10 mm
- ✓ Excellent background suppression characteristics with pinpoint LED
- ✓  **IO-Link** interface available on PNP types
- ✓ Mutual interference immunity
- ✓ Versions available with stability alarm as second output
- ✓ Enclosure rating IP67, Ecolab approved
- ✓ Versatile mounting brackets for ease of installation



	HOUSING MATERIAL	CABLE**	CONNECTOR**	 IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE *	ACCESSORIES (SEE PAGE 138)
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMK-403	F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMK-603	F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMK-60C	F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMS-403	A F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMS-603	B F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMS-60C	B F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMK-403	F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMK-603	F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMK-60C	F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMS-403	A F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMS-603	B F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMS-60C	B F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMV-603-324	C F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMV-603-324	C F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-PMV-403-326	A F H
	ABS			 IO-Link	1,000	−25 ... +65°C	IP67	LHR-C23PA-TMV-403-326	A F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-PMK-403	F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-PMK-603	F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-PMK-60C	F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-PMS-403	A F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-PMS-603	B F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-PMS-60C	B F H
	ABS			 IO-Link	1,500	−25 ... +65°C	IP67	LTR-C23PA-NMK-403	F H

COMMON FEATURES
OUTPUT

Supply Voltage range

10 ... 30 VDC

Sensor type

[LH] Background suppression [LL] Through-beam
[LR] Reflex [LT] Diffuse

[xx][x]-C23PA-[xxx]-[xxx]

see p. 196

Emission type

[R] Red

see p. 196

Reference key on page 196

OPERATING PRINCIPLE



Background suppression



Diffuse



Reflex



Through-beam

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

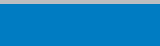
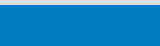


Group H: Sensor tester

Go to page 298 for details

CUBIC C23

C23 SERIES

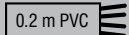
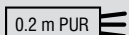
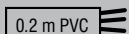
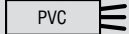
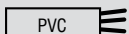
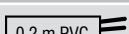
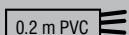
FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE	
CUBIC C23 – C23 SERIES		 1,500	20 × 30 (C23)	LED, red 630 nm	
		 1,500	20 × 30 (C23)	LED, red 630 nm	
		 1,500	20 × 30 (C23)	LED, red 630 nm	
		 8,000	20 × 30 (C23)	LED, red 630 nm	
		 8,000	20 × 30 (C23)	LED, red 630 nm	
		 8,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	
		 30,000	20 × 30 (C23)	LED, red 630 nm	



KEY ADVANTAGES

- ✓ First-class sensing ranges
- ✓ Small plastic housing, 20 × 30 × 10 mm
- ✓ Excellent background suppression characteristics with pinpoint LED
- ✓  IO-Link interface available on PNP types
- ✓ Mutual interference immunity
- ✓ Versions available with stability alarm as second output
- ✓ Enclosure rating IP67, Ecolab approved
- ✓ Versatile mounting brackets for ease of installation



	HOUSING MATERIAL	CABLE **	CONNECTOR **	 IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE *	ACCESSORIES (SEE PAGE 140)
	ABS		 M8	 IO-Link	1,500	–25 ... +65°C	IP67	LTR-C23PA-NMS-403	
	ABS	 0.2 m PVC	 M12	 IO-Link	1,500	–25 ... +65°C	IP67	LTR-C23PA-PMV-603-324	
	ABS	 0.2 m PUR	 M8	 IO-Link	1,500	–25 ... +65°C	IP67	LTR-C23PA-PMV-403-326	
	ABS	 PVC		 IO-Link	1,500	–25 ... +65°C	IP67	LRR-C23PA-NMK-603	
	ABS		 M8	 IO-Link	1,500	–25 ... +65°C	IP67	LRR-C23PA-NMS-603	
	ABS	 0.2 m PVC	 M12	 IO-Link	1,500	–25 ... +65°C	IP67	LRR-C23PA-NMV-603-324	
	ABS	 PVC		 IO-Link	1,000	–25 ... +65°C	IP67	LLR-C23PA-NMK-400	
	ABS		 M8	 IO-Link	1,000	–25 ... +65°C	IP67	LLR-C23PA-NMS-400	
	ABS	 PVC		 IO-Link	1,000	–25 ... +65°C	IP67	LLR-C23PA-NMK-603	
	ABS		 M8	 IO-Link	1,000	–25 ... +65°C	IP67	LLR-C23PA-NMS-603	
	ABS	 0.2 m PVC	 M12	 IO-Link	1,000	–25 ... +65°C	IP67	LLR-C23PA-NMV-400-324	
	ABS	 0.2 m PVC	 M12	 IO-Link	1,000	–25 ... +65°C	IP67	LLR-C23PA-NMV-603-324	

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