

MINIATURE

PHOTOELECTRIC SENSORS

SMALLEST ON THE MARKET

The Contrinex **Miniature** range packs exceptional position- and presence-sensing performance into the smallest self-contained photoelectric sensors on the market. Designers have the choice of through-beam or diffuse sensors in Ø4 and M5 cylindrical metal housings that offer multiple mounting methods and beam orientation. For fully embedded applications, M5 and Ø4 sensors produce focused, cylindrical light beams.

KEY ADVANTAGES

D04 / M05 / 0507 series

- ✓ Rugged diffuse or through-beam sensors in steel housing: Ø4, M5 or 5 × 7 × 40 mm
- ✓ Extremely compact self-contained photoelectric sensors
- ✓ Accurate target detection due to focused red light beam
- ✓  **IO-Link**

C12 series

- ✓ Plastic housing, 13 × 21/27 × 7 mm
- ✓ Red pinpoint LED, small visible light spot
- ✓ Long sensing ranges
- ✓ Excellent background suppression up to 120 mm with 3-turn potentiometer



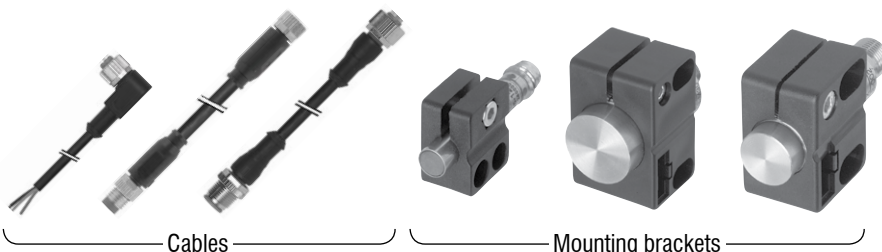
PRODUCT OVERVIEW

 **IO-Link**

SERIES Housing size mm		D04 Ø4	M05 M5	0507 □ 5 × 7 × 40	C12 □ 13 × 21/27 × 7
s _n mm	Diffuse	12/24/60/120	12/24/60/120	20/50/90	–
	Background suppression	–	–	–	15/30/120
	Reflex	–	–	–	3,000
	Through-beam	600	600	–	2,000

ACCESSORIES

Go to page 298 to see all the accessories



Алматы (7273)495-231
Ангарск (3955)60-70-56
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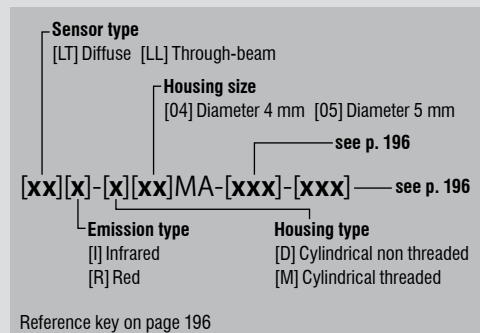
<https://contrinex.nt-rt.ru/> || cxa@nt-rt.ru

COMMON FEATURES

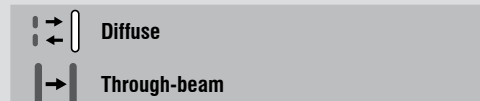
Supply Voltage range	10 ... 30 VDC
Output	PNP Light-ON (Diffuse) PNP Dark-ON (Through)*

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

OUTPUT



OPERATING PRINCIPLE



ACCESSORIES

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

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

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

D Group D: M12 AC/DC 3-pin

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

F Group F: Photoelectric mounting brackets

G Group G: Photoelectric reflectors

H Group H: Sensor tester

Go to page 298 for details

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

CYLINDRICAL D04/M05

D04/M05

SERIES

FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE
CYLINDRICAL D04/M05 – D04/M05 SERIES		12	Ø 4	LED, red 680 nm
		12	Ø 4	LED, red 680 nm
		12	Ø 4	LED, red 680 nm
		12	Ø 4	LED, infrared 880 nm
		24	Ø 4	LED, red 680 nm
		24	Ø 4	LED, red 680 nm
		24	Ø 4	LED, red 680 nm
		24	Ø 4	LED, infrared 880 nm
		24	Ø 4	LED, infrared 880 nm
		24	Ø 4	LED, infrared 880 nm
		60	Ø 4	LED, red 680 nm
		60	Ø 4	LED, red 680 nm
		60	Ø 4	LED, red 680 nm
		120	Ø 4	LED, red 680 nm
		120	Ø 4	LED, red 680 nm
		600	Ø 4	LED, red 680 nm
		600	Ø 4	LED, red 680 nm
		600	Ø 4	LED, red 680 nm
		12	M5	LED, red 680 nm
		12	M5	LED, red 680 nm
		12	M5	LED, red 680 nm
		12	M5	LED, infrared 880 nm
		24	M5	LED, red 680 nm

KEY ADVANTAGES

- ✓ Rugged metal housing
- ✓ Rugged PBT/PMMA sensing face, scratch & chemically resistant
- ✓ Shock & vibration resistant due to fully vacuum-potted electronics
- ✓ Accurate target detection due to cylindrical light beam



	HOUSING MATERIAL	CABLE	CONNECTOR	IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE *	ACCESSORIES (SEE PAGE 150)
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NSK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NSV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NSS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTI-D04MA-NSK-403	E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NMK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NMV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NMS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTI-D04MA-NMK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTI-D04MA-NMV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTI-D04MA-NMS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NLK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NLV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-NLS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-WXK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-D04MA-WXV-403	B E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LLR-D04MA-NMK-404	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LLR-D04MA-NMV-404	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LLR-D04MA-NMS-404	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NSK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NSV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NSS-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTI-M05MA-NSS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NMK-403	E H

COMMON FEATURES

Supply Voltage range	10 ... 30 VDC
Output	PNP Light-ON (Diffuse) PNP Dark-ON (Through)*

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

OUTPUT

Sensor type
[LT] Diffuse [LL] Through-beam

Housing size
[04] Diameter 4 mm [05] Diameter 5 mm

see p. 196

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

Emission type
[I] Infrared
[R] Red

Housing type
[D] Cylindrical non threaded
[M] Cylindrical threaded

Reference key on page 196

OPERATING PRINCIPLE

 Diffuse

 Through-beam

ACCESSORIES



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



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



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



D Group D: M12 AC/DC 3-pin



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



F Group F: Photoelectric mounting brackets



G Group G: Photoelectric reflectors



H Group H: Sensor tester

Go to page 298 for details



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

CYLINDRICAL D04/M05
D04/M05
SERIES

FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE
CYLINDRICAL D04/M05 – D04/M05 SERIES		24	M5	LED, red 680 nm
		24	M5	LED, red 680 nm
		24	M5	LED, infrared 880 nm
		24	M5	LED, infrared 880 nm
		24	M5	LED, infrared 880 nm
		60	M5	LED, red 680 nm
		60	M5	LED, red 680 nm
		60	M5	LED, red 680 nm
		120	M5	LED, red 680 nm
		120	M5	LED, red 680 nm
		600	M5	LED, red 680 nm
		600	M5	LED, red 680 nm
		600	M5	LED, red 680 nm

KEY ADVANTAGES

- ✓ Rugged metal housing
- ✓ Rugged PBT/PMMA sensing face, scratch & chemically resistant
- ✓ Shock & vibration resistant due to fully vacuum-potted electronics
- ✓ Accurate target detection due to cylindrical light beam



	HOUSING MATERIAL	CABLE	CONNECTOR	IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE *	ACCESSORIES (SEE PAGE 152)
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NMV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NMS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTI-M05MA-NMK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTI-M05MA-NMV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTI-M05MA-NMS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NLK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NLV-403	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-NLS-403	A E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-WXK-403	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LTR-M05MA-WXV-403	B E H
	Stainless steel V2A	PUR		IO-Link	1,000	−25 ... +65°C	IP67	LLR-M05MA-NMK-404	E H
	Stainless steel V2A	0.3 m PUR	M8	IO-Link	1,000	−25 ... +65°C	IP67	LLR-M05MA-NMV-404	A E H
	Stainless steel V2A		M8	IO-Link	1,000	−25 ... +65°C	IP67	LLR-M05MA-NMS-404	A E H

COMMON FEATURES

Supply Voltage range	10 ... 30 VDC
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OUTPUT

Sensor type
[T] Diffuse

L[x][x]-0507-[xxx]-[xxx] — see p. 197

Connection
[K] Cable — see p. 197

Reference key on page 197

OPERATING PRINCIPLE

Diffuse

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 0507
0507 SERIES

FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE
CUBIC 0507 – 0507 SERIES		20	5 × 7	LED, infrared 880 nm
		20	5 × 7	LED, infrared 880 nm
		50	5 × 7	LED, infrared 880 nm
		50	5 × 7	LED, infrared 880 nm
		90	5 × 7	LED, infrared 880 nm



CUBIC 0507 – 0507 SERIES

KEY ADVANTAGES

- ✓ Rugged metal housing
- ✓ Rugged sapphire-glass or glass sensing face, scratch and chemically resistant
- ✓ Shock & vibration resistant due to fully vacuum-potted electronics
- ✓ Accurate target detection due to cylindrical light beam



	HOUSING MATERIAL	CABLE	CONNECTOR	IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE	ACCESSORIES (SEE PAGE 154)
	Stainless steel V2A	PVC			250	0 ... +55°C	IP67	LTK-0507-301-501	H
	Stainless steel V2A	PVC			250	0 ... +55°C	IP67	LTK-0507-303-501	H
	Stainless steel V2A	PVC			250	0 ... +55°C	IP67	LTK-0507-301	H
	Stainless steel V2A	PVC			250	0 ... +55°C	IP67	LTK-0507-303	H
	Stainless steel V2A	PVC			250	0 ... +55°C	IP67	LTK-0507-303-502	H

COMMON FEATURES

Supply Voltage range	10 ... 30 VDC
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OUTPUT

Sensor type
[LH] Background suppression [LL] Through-beam
[LR] Reflex

see p. 196

[xx][x]-C12PA-[xxx]-[xxx] — see p. 196

Emission type
[R] Red

Reference key on page 196

OPERATING PRINCIPLE

Background suppression

Reflex

Through-beam

ACCESSORIES

A

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

B

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

C

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

D

Group D: M12 AC/DC 3-pin

E

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

F

Group F: Photoelectric mounting brackets

G

Group G: Photoelectric reflectors

H

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 C12
C12 SERIES

FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	HOUSING SIZE (mm)	LIGHT SOURCE	
CUBIC C12 – C12 SERIES		120	13 × 27 (C12)	Pinpoint LED, red 640 nm	
		120	13 × 27 (C12)	Pinpoint LED, red 640 nm	
		120	13 × 27 (C12)	Pinpoint LED, red 640 nm	
		120	13 × 27 (C12)	Pinpoint LED, red 640 nm	
		18	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		18	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		18	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		18	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		36	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		36	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		36	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		36	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		3,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		3,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		3,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		3,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		2,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		2,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		2,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	
		2,000	13 × 21 (C12)	Pinpoint LED, red 640 nm	

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Сыктывкар (8212)25-95-17

Тамбов (4752)50-40-97

Тверь (4822)63-31-35

Тольятти (8482)63-91-07

Томск (3822)98-41-53

Тула (4872)33-79-87

Тюмень (3452)66-21-18

Ульяновск (8422)24-23-59

Улан-Удэ (3012)59-97-51

Уфа (347)229-48-12

Хабаровск (4212)92-98-04

Чебоксары (8352)28-53-07

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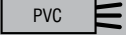
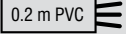
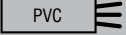
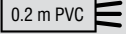
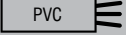
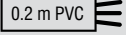
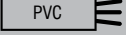
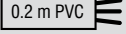
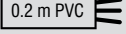
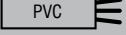
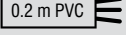
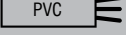
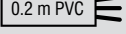
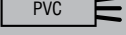
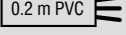
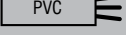
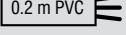
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KEY ADVANTAGES

- ✓ Plastic housing, 13 × 21/27 × 7 mm
- ✓ Red pinpoint LED, small visible light spot
- ✓ Long sensing ranges
- ✓ Excellent background suppression up to 120 mm with 3-turn potentiometer



	HOUSING MATERIAL	CABLE	CONNECTOR	 IO-Link	SWITCHING FREQUENCY (Hz)	AMBIENT TEMPERATURE	DEGREE OF PROTECTION	PART REFERENCE	ACCESSORIES (SEE PAGE 156)
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-PLK-303	
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-PLV-303	 
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-PLK-301	
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-PLV-301	 
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NSK-303	
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NSV-303	 
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NSK-301	
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NSV-301	 
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NMK-303	
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NMV-303	 
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NMK-301	
	ABS				800	−20 ... +50°C	IP67	LHR-C12PA-NMV-301	 
	ABS				800	−20 ... +50°C	IP67	LRR-C12PA-NMK-304	 
	ABS				800	−20 ... +50°C	IP67	LRR-C12PA-NMV-304	  
	ABS				800	−20 ... +50°C	IP67	LRR-C12PA-NMK-302	 
	ABS				800	−20 ... +50°C	IP67	LRR-C12PA-NMV-302	  
	ABS				800	−20 ... +50°C	IP67	LLR-C12PA-NMK-300	
	ABS				800	−20 ... +50°C	IP67	LLR-C12PA-NMV-300	 
	ABS				800	−20 ... +50°C	IP67	LLR-C12PA-NMK-304	
	ABS				800	−20 ... +50°C	IP67	LLR-C12PA-NMV-304	 
	ABS				800	−20 ... +50°C	IP67	LLR-C12PA-NMK-302	
	ABS				800	−20 ... +50°C	IP67	LLR-C12PA-NMV-302	 