

FORK SENSORS

PHOTOELECTRIC SENSORS

ROBUST SPACE-SAVING DESIGN OFFERS VERSATILITY AND SIMPLICITY

Contrinex fork light-barrier sensors offer a powerful combination of simplicity, multi-mode operation and compactness, with high-resolution and high-speed sensing as standard. Ideal for general position- and presence-sensing in industrial environments, these versatile, metal-cased devices allow four modes of operation – standard, high-resolution, power and high-speed – and the convenience of a push-pull output. Equipped with the industry-standard IO-Link protocol, they provide a choice of manual or remote set-up and adjustment, simplifying installation while saving time and money.

KEY ADVANTAGES

- ✓ High resolution: Ø 0.1–0.2 mm
- ✓ High frequency up to 14 kHz
- ✓ 4 sensor modes: Standard, High Resolution, Power, Speed
- ✓  IO-Link v1.1
- ✓ Sensitivity adjustment allowing detection of transparent objects
- ✓ Compact design accommodates photoelectric emitter and receiver in a single housing
- ✓ Push-pull output keeps inventory costs down while allowing exceptional flexibility
- ✓ Robust space-saving housing ensures precise alignment requiring no on-site adjustment



PRODUCT OVERVIEW

 IO-Link								
SERIES	U 10	U 20	U 30	U 40	U 50	U 80	U 11	U 12
Housing size mm	□ 25×45×10	□ 40×50×10	□ 50×60×10	□ 60×70×10	□ 70×80×10	□ 100×80×10	□ 120×80×10	□ 144×90×12
Through-beam (s _n mm)	10	20	30	40	50	80	100	120

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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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

COMMON FEATURES

Supply Voltage range	10 ... 30 VDC
Output	Light-ON/Dark-ON/IO-Link
Ambient temperature	–25 ... +60°C

OUTPUT

LG[x]-U[xx]MA-[xxx]-[xxx]

Housing size
[# #] Fork opening in mm

Emission type
[I] Infrared [R] Red

see p. 196

see p. 196

Reference key on page 196

OPERATING PRINCIPLE

 Through-beam

ACCESSORIES

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

**B** Group B: M8 4-pin

**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

U-SHAPE FORK SENSORS
LG SERIES

FAMILY	OPERATING PRINCIPLE	SENSING RANGE (mm)	FORK OPENING (mm)	LIGHT SOURCE	
U-SHAPE FORK SENSORS – LG SERIES		10	10	LED, infrared 880 nm	
		20	20	LED, red 660 nm	
		30	30	LED, red 660 nm	
		40	40	LED, red 660 nm	
		50	50	LED, red 660 nm	
		80	80	LED, red 660 nm	
		100	100	LED, red 660 nm	
		120	120	LED, red 660 nm	



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	HOUSING MATERIAL	CABLE	CONNECTOR	 IO-Link	SWITCHING FREQUENCY (Hz)	RESOLUTION (mm)	DEGREE OF PROTECTION	PART REFERENCE	ACCESSORIES (SEE PAGE 194)
	Die-cast zinc		 M8	 IO-Link	10,000	0.2	IP67	LGI-U10MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.3	IP67	LGR-U20MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.3	IP67	LGR-U30MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.3	IP67	LGR-U40MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.3	IP67	LGR-U50MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.3	IP67	LGR-U80MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.3	IP67	LGR-U11MA-PMS-407	 
	Die-cast zinc		 M8	 IO-Link	5,000	0.5	IP67	LGR-U12MA-PMS-407	 

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