

0507 AND C12 SERIES



HIGHLIGHTS

0507 SERIES

- Rugged diffuse sensor in stainless-steel housing, 5×7×40 mm
- Sapphire-glass sensing face, scratch and chemically resistant
- Accurate target detection due to focused red light beam

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

INDUSTRIES

Packaging, logistics, materials handling, assembly, automation, robotics, precision engineering, semiconductors, electronics, vending machines, miniature conveyors, grippers

SELECTION OF PRODUCTS

	PART REFERENCE	ART. N°.	HOUSING SIZE	SENSING RANGE	OUTPUT*	CONNECTION
DIFFUSE	LTK-0507-303-501	620-200-826	5×7×40 mm	20 mm	PNP Light-ON	3-wire PVC 2 m
	LTK-0507-303	620-200-823	5×7×40 mm	50 mm	PNP Light-ON	3-wire PVC 2 m
	LTK-0507-303-502	620-200-828	5×7×40 mm	90 mm	PNP Light-ON	3-wire PVC 2 m

	PART REFERENCE	ART. N°.	HOUSING SIZE	SENSING RANGE	ADJUSTMENT	OUTPUT*	CONNECTION**
BACKGROUND SUPPRESSION	LHR-C12PA-PLK-303	628-000-679	13×27×7 mm	120 mm	3-turn potentiometer	PNP Light-ON	3-wire PVC 2 m
	LHR-C12PA-NSK-303	628-000-671	13×21×7 mm	15 mm	No	PNP Light-ON	3-wire PVC 2 m
	LHR-C12PA-NMK-303	628-000-675	13×21×7 mm	30 mm	No	PNP Light-ON	3-wire PVC 2 m
REFLEX	LRR-C12PA-NMK-304	628-000-683	13×21×7 mm	3,000 mm	No	PNP Dark-ON	3-wire PVC 2 m
THROUGH-BEAM	LLR-C12PA-NMK-304 (receiver)	628-000-689	13×21×7 mm	2,000 mm	No	PNP Dark-ON	3-wire PVC 2 m

*NPN versions also available **M8 pigtail types also available

ACCESSORIES

CONNECTING CABLES PVC WITH OPEN ENDED WIRES*

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S08-3FVG-020	M8	3-pole	straight	PVC	2 m
S08-3FW-020	M8	3-pole	right angle	PVC	2 m
S08-4FVG-020	M8	4-pole	straight	PVC	2 m
S08-4FW-020	M8	4-pole	right angle	PVC	2 m

CONNECTING CABLES PUR WITH OPEN ENDED WIRES*

PART REFERENCE	SOCKET			CABLE	
	Size	Pins	Config.	Material	Length
S08-3FUG-020	M8	3-pole	straight	PUR	2 m
S08-3FUW-020	M8	3-pole	right angle	PUR	2 m
S08-4FUG-020	M8	4-pole	straight	PUR	2 m
S08-4FUW-020	M8	4-pole	right angle	PUR	2 m

CONNECTING CABLES PVC

PART REFERENCE	SOCKET			CABLE		PLUG	
	Size	Pins	Config.	Material	Length	Size	Config.
S08-3FVG-020-08MG	M8	3-pole	straight	PVC	2 m	M8	straight
S08-3FVG-050-08MG	M8	3-pole	straight	PVC	5 m	M8	straight

CONNECTING CABLES PUR

PART REFERENCE	SOCKET			CABLE		PLUG	
	Size	Pins	Config.	Material	Length	Size	Config.
S08-3FUG-020-08MG	M8	3-pole	straight	PUR	2 m	M8	straight
S08-3FUG-050-08MG	M8	3-pole	straight	PUR	5 m	M8	straight

SENSOR MOUNTING CLAMPS

TECHNICAL DATA				
Part reference	Type	For sensor housing	Fixing	Material
ASU-0001-040	without limit stop	∅ 4 mm	M3	Plastic PA6 black
ASU-0001-050	without limit stop	∅ 5 mm	M3	Plastic PA6 black

Screw: DIN 912, M3 zinc-plated Nut: DIN 934, M3 zinc-plated

*More references available

Terms of delivery and right to change design reserved.

HEADQUARTERS

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CONTRINEX
SENSORS SAFETY RFID



PHOTOELECTRIC SENSORS

MINIATURE

**SMALLEST
ON THE MARKET**

D04 / M05 / 0507 SERIES

✓ RUGGED DIFFUSE OR THROUGH-BEAM SENSORS IN STEEL HOUSING: ∅ 4 MM, M5 OR 5×7×40 MM

✓ EXTREMELY COMPACT SELF-CONTAINED PHOTOELECTRIC SENSORS

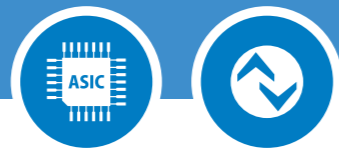
✓ ACCURATE TARGET DETECTION DUE TO FOCUSED RED LIGHT BEAM

C12 SERIES

✓ PLASTIC HOUSING, 13×21/27×7 MM

✓ RED PINPOINT LED, SMALL VISIBLE LIGHT SPOT

✓ LONG SENSING RANGES



D04 AND M05 SERIES

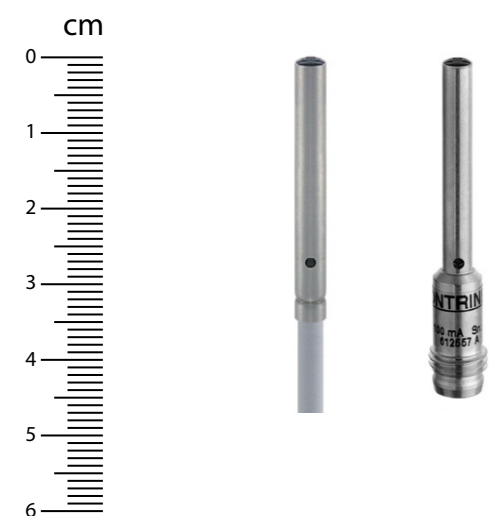


HIGHLIGHTS

- Calibrated sensing ranges
- Teach available with extended type
- High switching frequency
- Connection by cable, M8 connector or M8 pigtail
- IO-Link interface available on PNP types
- Diffuse or through-beam operating principle
- Mutual interference immunity for through-beam types by setting emitter/receiver pairs with IO-Link
- Enclosure rating IP67

D04 SERIES

Embeddable housing in stainless steel V2A, Ø 4 mm



M05 SERIES

Embeddable housing in stainless steel V2A, threaded M5



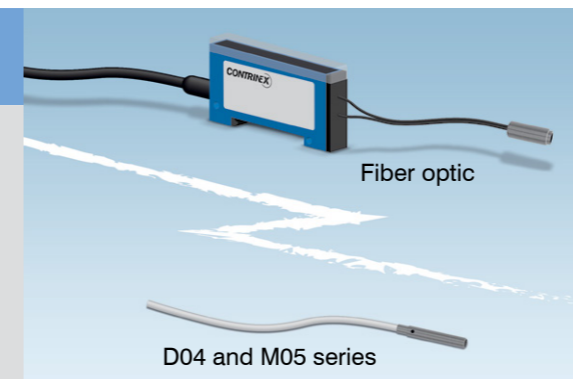
INDUSTRIES

Packaging, logistics, materials handling, assembly, automation, robotics, precision engineering, semi-conductors, electronics, vending machines, miniature conveyors, grippers

ADVANTAGES

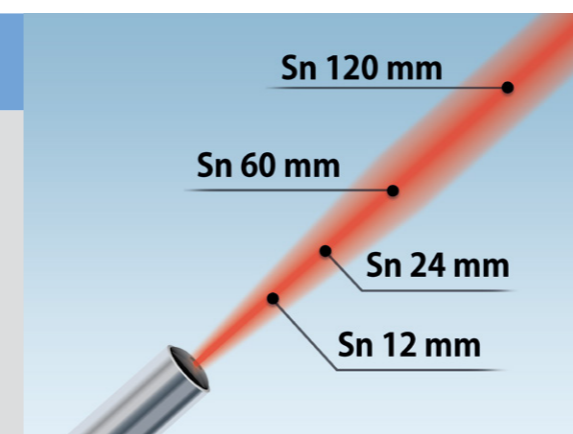
SIMPLE AND ECONOMIC ALTERNATIVE TO FIBER OPTICS

- Similar space requirement to an optical fiber, without the need for a separate amplifier
- Reduced costs for mounting and wiring
- Visible red light source for ease of installation
- Types with infrared light source available on demand



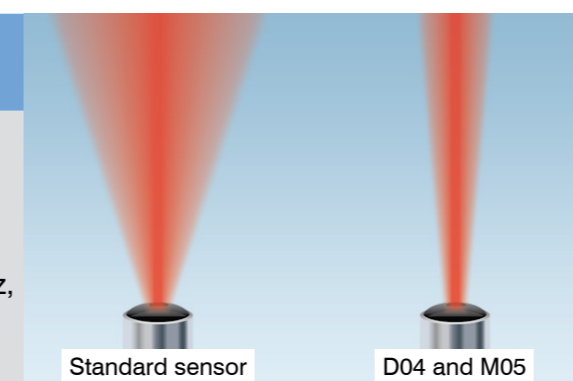
ADAPTABLE TO ALL CONDITIONS CALIBRATED SENSING RANGES

- Factory calibrated diffuse types with precise sensing ranges: 12 mm, 24 mm, 60 mm and 120 mm
- Extended types with sensitivity adjustment by IO-Link or teach wire (4th wire)
- A single extended sensor type adapts to many applications
- Through-beam types with sensing range up to 600 mm



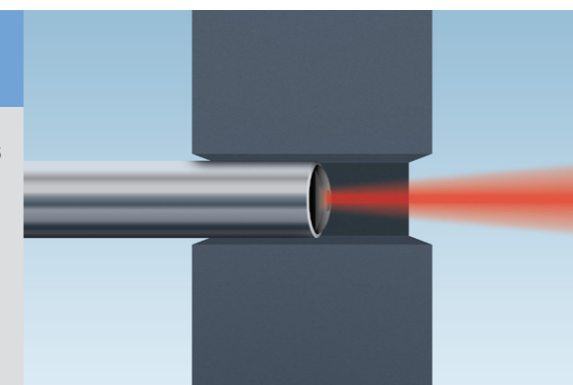
PRECISE TARGET DETECTION FOCUSED, NARROW LIGHT BEAM

- Special optics with narrow beam and small light spot: 6 mm diameter at range of 50 mm
- Reliable detection of small, thin targets
- Reliable at high speed: switching frequency up to 2.5 kHz, adjustable via IO-Link



FULLY EMBEDDABLE RECESSED MOUNTING POSSIBLE

- Easy to mount using brackets, drill holes or existing gaps
- Embeddable, including recessed mounting
- Target detection possible through a narrow gap



SELECTION OF PRODUCTS

	PART REFERENCE	ART. N°.	HOUSING SIZE	SENSING RANGE	ADJUSTMENT	OUTPUT*	CONNECTION**	
DIFFUSE	D04	LTR-D04MA-NSK-403	620-600-362	Ø 4	12 mm	No	PNP Light-ON	3-wire PUR 2 m
		LTR-D04MA-NMK-403	620-600-363	Ø 4	24 mm	No	PNP Light-ON	3-wire PUR 2 m
		LTR-D04MA-NLK-403	620-600-361	Ø 4	60 mm	IO-Link	PNP Light-ON	3-wire PUR 2 m
	M05	LTR-D04MA-WXK-403	620-600-365	Ø 4	120 mm	Teach or IO-Link	PNP Light-ON	4-wire PUR 2 m
		LTR-M05MA-NSK-403	620-600-340	M5	12 mm	No	PNP Light-ON	3-wire PUR 2 m
		LTR-M05MA-NMK-403	620-600-341	M5	24 mm	No	PNP Light-ON	3-wire PUR 2 m
THROUGH-BEAM	D04	LLR-D04MA-NMK-404 (receiver)	620-600-356	Ø 4	600 mm	IO-Link	PNP Dark-ON	3-wire PUR 2 m
		LLR-M05MA-NMK-404 (receiver)	620-600-334	M5	600 mm	IO-Link	PNP Dark-ON	3-wire PUR 2 m
	M05							

*Other output types available **M8 connector and M8 pigtail types also available

LIVE SENSOR DATA FOR IoT

CLOUD ANALYTICS

IO-Link SENSORS

SMART COMMUNICATION WITH CONTRINEX SENSORS

- Continuous monitoring of process data
- Continuous diagnosis of sensor status
- Plug & play solution compatible with greenfield and brownfield applications

IO-LINK FUNCTIONALITY WITH PHOTOELECTRIC SENSORS (PNP TYPES)

DATA MONITORING, DIAGNOSIS, SENSITIVITY, TEACH, LIGHT-ON/DARK-ON SELECTION, SENSOR MODE, DELAY, STRETCH, SEQUENCE SELECTION, DETECTION COUNTER, TEMPERATURE