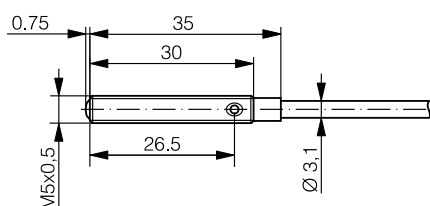
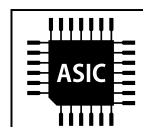


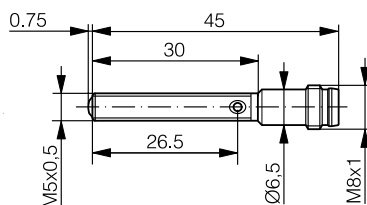
30 mm

- ✓ M5 miniature housing
- ✓ Focus IR light source
- ✓ IO-Link
- ✓ Calibrated range
- ✓ Embeddable
- ✓ Immunity to mutual interferences
- ✓ Sapphire optical parts, easy to clean



LTI-M05MH-NMK-403

Cable type



LTI-M05MH-NMS-403

Connector type

OPTICAL DATA		INTERFACE	
Sensing range typ. max.	0...30 mm ¹	Sensitivity adjustment	15...30 mm, IO-Link
Operating range	0...25 mm ¹	Indicator LED, green	Excess gain
Light source	LED, IR 880 nm	Indicator LED, yellow	Sensing state
Light spot size (distance)	Ø 5 mm (10 mm)	IO-Link	✓
	Ø 8 mm (20 mm)	MTTF (@40°C)	664 y

¹Object with 90% reflectance (standard white paper)

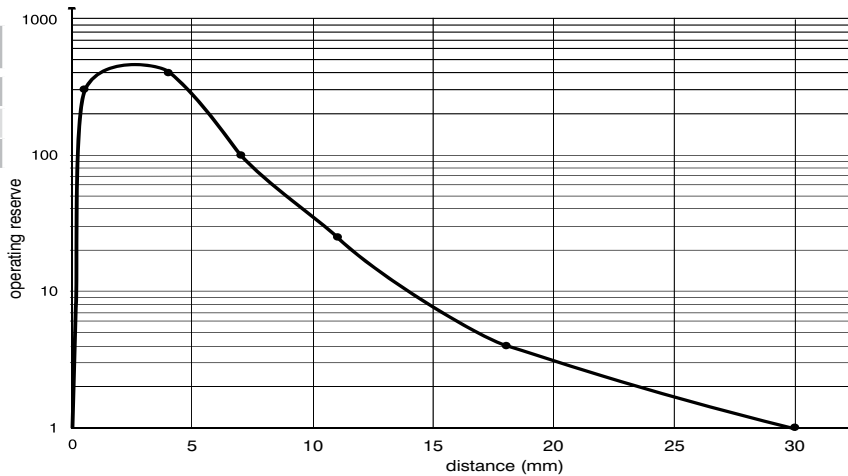
ELECTRICAL DATA		MECHANICAL DATA	
Supply voltage range (U _b)	10...30 VDC	Enclosure rating	IP67
Residual ripple	≤ 10% V _{pp}	Ambient temperature operation	0...+55°C
Output current	≤ 100 mA	Shock and vibration	IEC 60947-5-2
Signal PNP high/low	≤ (U _b -2.0 V)/approx. 0 V	Weight (cable/connector)	30 g / 5 g
Signal NPN high/low	Approx. U _b /≤ 2.0 V	Housing material	V2A stainless steel
Power consumption (no load)	≤ 12 mA	Optics material	Sapphire
Response time ¹	≤ 500 μs (normal)/≤ 1 ms/≤ 200 μs	Cable type	PVC, 2 m, 3-wire
Switching frequency ¹	≤ 1 kHz (normal)/≤ 500 Hz/≤ 2.5 kHz	Connector type	M8 3-pin
Short circuit protection	✓		
Voltage reversal protection	✓		

¹By default, "Normal" mode. "Fine" and "Fast" modes selectable via IO-Link.

SENSING RANGE

EXCESS GAIN

Target	Operating range	Sensing range max.
90%	0...25 mm	0...30 mm
18%	0.1...11 mm	0.05...14 mm
6%	0.3...7 mm	0.2...9 mm



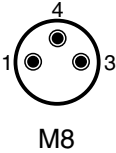
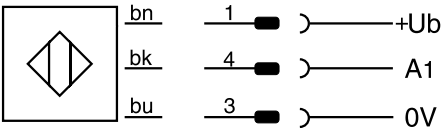
IO-LINK FUNCTIONALITIES

IO-Link version	1.0
SIO mode	Supported
Process data	Detection state & stability alarm
Baudrate	COM2 (38.4 kBaud)
Special functions	Output configuration, output timing, sensor mode, detection counter, event flags, maximum and actual sensor temperature

IO-Link specifications and IODD files may be downloaded from www.contrinex.com (Download section)

WIRING DIAGRAM

PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output (A1)
620-600-625	LTI-M05MH-NMK-403	PNP	PVC, 2 m, 3-wire	Light-on/IO-Link
620-600-626	LTI-M05MH-NMS-403	PNP	M8 3-pin	Light-on/IO-Link

Note: additional suffix can appear to indicate a revision version or a special version.

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