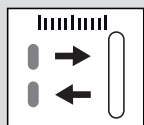




PHOTOELECTRIC SENSOR

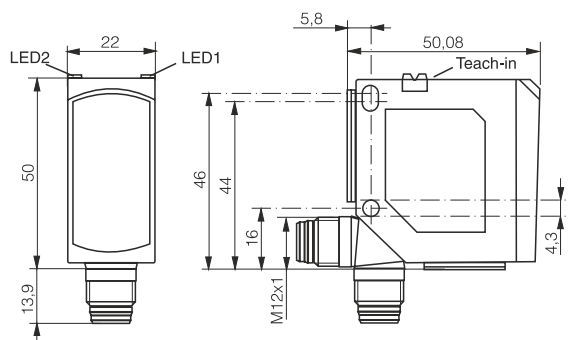
DISTANCE

DTL-C55PA-TM



5'000 mm

- ✓ Time-of-flight (TOF)
- ✓ Laser emission
- ✓ High precision
- ✓ Digital distance measure-
- ment thanks to IO-Link
- ✓ Settable outputs
- ✓ Reliable measurement of tilted objects



OPTICAL DATA

Measurement range	100...5'000 mm ¹
Resolution	< 5 mm
Linearity	± 30 mm ¹
Repeatability	see diagram
Light source	Laser class 1, red 655 nm
Light spot size (distance)	5 x 4 mm ² (3'000 mm)

¹Object with 18%...90% reflectance (standard gray to white paper)

INTERFACE

Adjustment	Teach button or teach input
Indicator LED, green	Supply voltage state
Indicator LED, yellow	Sensing state
IO-Link	✓

ELECTRICAL DATA

Supply voltage range (U _b)	18...30 VDC
Analog output (current version)	4...20 mA, max. load 500 Ohms
Analog output (voltage version)	0...10 V, min. load 4k Ohms
Output current	≤ 100 mA
Signal PNP high/low	≤ (U _b -2.0 V)/ approx. 0 V
Signal NPN high/low	Approx. U _b / ≤ 2.0 V
Power consumption (no load)	≤ 60 mA
Response time (analog)	2 ms
Switching frequency	≤ 250 Hz
Short circuit protection	✓
Voltage reversal protection	✓

MECHANICAL DATA

Enclosure rating	IP67 & IP69K
Ambient temperature operation	-40...+60°C (UL: max +45°C)
Shock and vibration	IEC 60947-5-2
Weight (connector version)	42 g
Weight (cable version)	-
Housing material	ABS
Window material	PMMA
Connection cable	-
Connector type	M12 5-pin

MEASUREMENT RANGE

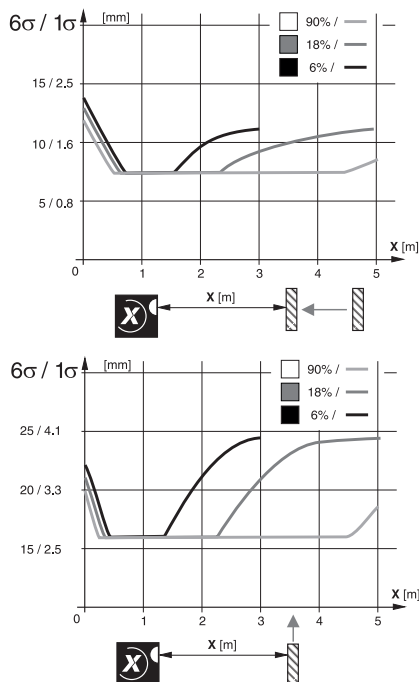
Target	Measurement range
90%	100...5'000 mm
18%	100...5'000 mm
6%	100...3'000 mm

IO-LINK FUNCTIONALITIES

IO-Link version	1.1
SIO mode	Supported
Data storage	Supported
Baudrate	COM2 (38.4 kBaud)
Process data	Measurement value, switching output, signal quality
Parameters	According to IO-Link "Smart Sensor Profile", teach functions, etc.
Special functions	Counter operating hours & switch cycles, filter, signal quality level control, etc.

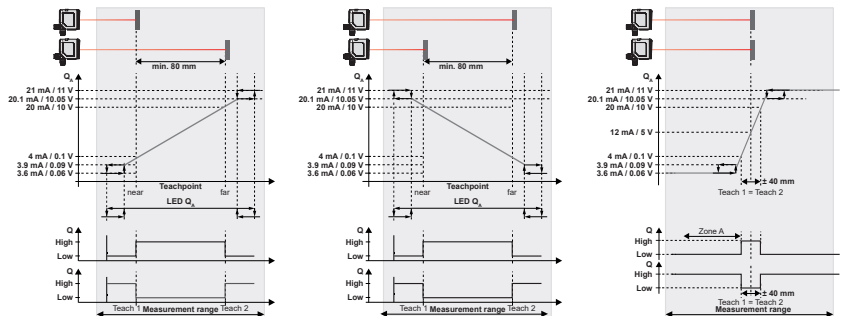
IO-Link specifications and IODD files may be downloaded from www.contrinex.com (Download section)

REPEATABILITY¹

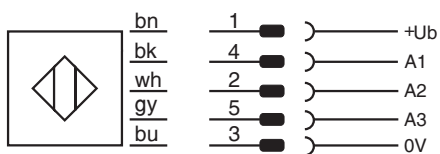


¹At constant ambient conditions

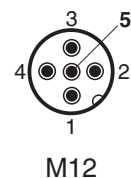
CHARACTERISTIC CURVE (INVERTIBLE & ADJUSTABLE)



WIRING DIAGRAM



PIN ASSIGNMENT



AVAILABLE TYPES

Part number	Part reference	Polarity	Connection	Output (A1)	Output (A2)	Input (A3)
628 000 704	DTL-C55PA-TMS-619-506	PNP/NPN auto-detect	Connector M12 5-pin	IO-Link/LO/DO	4...20 mA	Teach

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

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