

FT 55-CM-3-PNSD-L8M

Ordering information

Designation for ordering	FT 55-CM-3-PNSD-L8M
Part number	625-11010
Order text	18...60 mm, color sensor, spot 4 x 4 mm @ 40 mm, 5 x Q, PNP/NPN/Q1 auto- detect, N.O/N.C., (IO-Link), metal housing matt chrome, IP67 / IP69, display, M12, 8-pin
Components supplied	Operating manual, Sensor



Optical data	
Working range [mm]	18 ... 60
Light source	LED
Light color	White
Light spot size [mm]	4 x 4 @ 40 mm
LED risk category [RG]	2
Switching frequency ≤ [Hz]	≤ 3,000
Explanation of switching frequency	ti/tp 1:1

Functions	
Display, LED yellow	LED 2: Switching output indicator
Display, LED green	LED 1: Operating voltage indicator, IO-Link
Setting options	Different detection modes; NO / NC; Binary output; Auto detect / NPN / PNP; Button lock via control input; Switch-on and switch-off delay; Comprehensive IO-Link functions; Speed / averaging
Number of savable colors	12
Sensor setting	via display or IO-Link

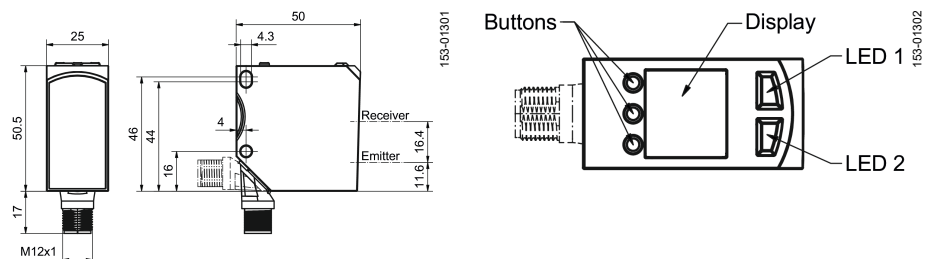
IO-Link	
Note on IO-Link availability	An 8-pin to 4-pin cable must be used in IO-link operation
Data storage	Yes
Communication mode	COM 2
Length of the process data [Bit]	48
Min. cycle time [ms]	4.0
SIO mode	is supported
IO-Link specification	1.1

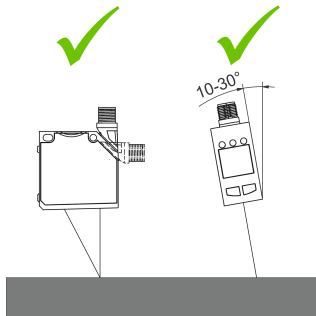
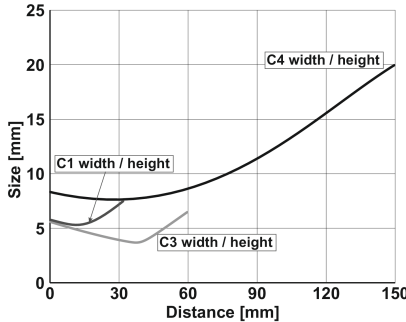
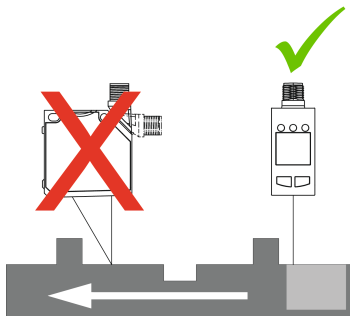
Electrical data	
Operating voltage U_B [V DC]	18 ... 30
No-load current [mA]	≤ 60
Explanation of no-load current	24 V DC
Output current [mA]	≤ 100
Readiness delay [ms]	≤ 150
Reverse polarity protection	Yes
Short circuit protection	Yes
Response time Q [μ s]	≤ 180
Explanation of response time	at ≥ 1500 Hz
Control input	Trigger, KeyLock
Protection class	2
Max. capacitive load [nF]	100
Output function	N.O./N.C.
Switching output Q	PNP/NPN (auto detect)
Explanation of switching output Q	Automatic selection of PNP or NPN based on Q1
Warm-up time [Min.]	5
Averaging times	3 Hz, 30 Hz (Werkseinstellung), 100 Hz, 300 Hz, 500 Hz, 1,5 kHz, 3 kHz (nur Q1 und Q2 verfügbar)

Mechanical data	
Height [mm]	50.5
Length [mm]	50.0
Width [mm]	25.0
Weight [g]	~ 150
Front panel material	PMMA
Housing material	Die-cast zinc, matte chrome
Display material	PMMA
Ambient temperature: operation [$^{\circ}$ C]	-20 ... 55
Ambient temperature: storage [$^{\circ}$ C]	-20 ... 80
Protection class	IP 67, IP 69
Explanation of protection class	with IP 67 / IP 69 plug connected
Vibration and shock resistance	EN 60947-5-2
Connection name	Metal plug M12, 8-pin
Display	LCD, 75 x 71 pixels

Technical drawings

Dimensional drawing



Assembly		155-02569																								
Light spot size		155-02384																								
Connections	8-pin, Auto-detect <table><tr><td>+U_B</td><td>1 BN</td><td>Auto-Detect</td></tr><tr><td>Q₂/IN TR*</td><td>2 WH</td><td></td></tr><tr><td>Q₅</td><td>5 GY</td><td></td></tr><tr><td>Q₁</td><td>4 BK</td><td></td></tr><tr><td>-U_B</td><td>3 BU</td><td></td></tr><tr><td>Q₃</td><td>6 PK</td><td></td></tr><tr><td>Q₄/IN KL*</td><td>7 VT</td><td></td></tr><tr><td>GND</td><td>8 OG</td><td></td></tr></table> Pin colors after EN 60947-5-2 *Can be used as output or input The sensor must be used with shielded cables.	+U _B	1 BN	Auto-Detect	Q ₂ /IN TR*	2 WH		Q ₅	5 GY		Q ₁	4 BK		-U _B	3 BU		Q ₃	6 PK		Q ₄ /IN KL*	7 VT		GND	8 OG		154-00568
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Preferential direction		155-02568																								

Product link

<https://www.sensopart.com/en/products/details/625-11010>