

FT 25-C2-GSL-M4M

Ordering information

Designation for ordering	FT 25-C2-GSL-M4M
Part number	607-21041
Order text	RGB color sensor, 12+/- 3 mm, 2.5 kHz, push-pull, teach-in, metal plug M8 4-pin, IP 67 & IP 69, IO-Link
Components supplied	Operating manual, Sensor



Optical data	
Working range [mm]	9 ... 15
Scanning distance [mm]	12
Scanning distance tolerance [mm]	-3.0 ... 3.0
Explanation of scanning distance tolerance	Tolerance depending on teach-in: fine, medium, coarse; see operating instructions
Light source	LED
Light color	Red
Light type	Green
Light type	Blue
Wavelength [nm]	633
Wavelength 2 [nm]	525
Wavelength 3 [nm]	460
Light spot size [mm]	1 x 5
Switching frequency ≤ [Hz]	≤ 2,500
Explanation of switching frequency	$f = 1 / (T \times Nyq \times 2)$

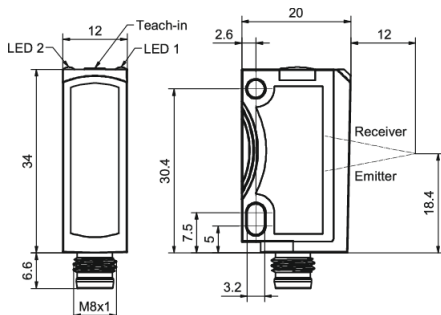
Functions	
Display, LED yellow	Switching output indicator
Display, LED green	Operating voltage indicator
Setting options	NO/NC via teach-in button and control input, button lock via control input, multiple setting options via IO-Link
Sensitivity setting	Via teach-in button, control input and IO-Link
Default settings	NO
Number of savable colors	1

IO-Link	
Data storage	Yes
Communication mode	COM 2
Length of the process data [Bit]	32
Min. cycle time [ms]	2.3
SIO mode	is supported
IO-Link specification	1.1

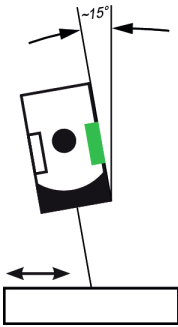
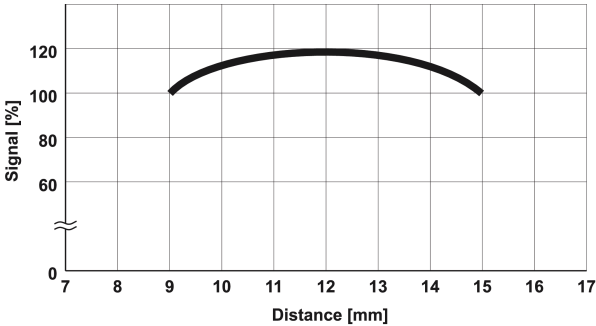
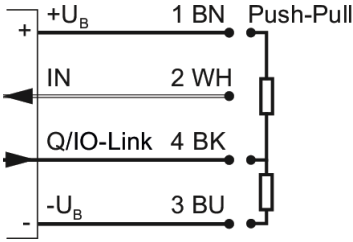
Electrical data	
Operating voltage UB [V DC]	10 ... 30
Explanation of operating voltage UB	max. 10% residual ripple, within UB ~ 50 Hz / 100 Hz
No-load current [mA]	≤ 30
Output current [mA]	≤ 100
Readiness delay [ms]	≤ 300
Reverse polarity protection	Yes
Short circuit protection	Yes
Response time Q [μs]	≤ 200
Control input	+ UB = Teach-in - UB = Button locked Open = Normal operation
Protection class	2
Jitter [μs]	20.0
Output function	N.O./N.C.
Switching output Q	Push-pull

Mechanical data	
Height [mm]	34.0
Length [mm]	20.0
Width [mm]	12.0
Weight [g]	~ 10
Front panel material	PMMA
Housing material	ABS
Ambient temperature: operation [°C]	-20 ... 55
Explanation of operation at ambient air temperature	UL: -20...+50 °C
Ambient temperature: storage [°C]	-20 ... 80
Protection class	IP 67, IP 69
Explanation of protection class	With IP67 / IP69 plug connected
Vibration and shock resistance	EN 60947-5-2
Connection name	Metal plug M8x1, 4-pin, IO-Link

Technical drawings

Dimensional drawing	
	

153-00995

Assembly	 155-01726
Signal history	 155-01648
Connections	4-pin, IO-Link  154-00560

Product link

<https://www.sensopart.com/en/products/details/607-21041>