FT 25-RGB1-GS-KL4



Ordering information

Designation for ordering	FT 25-RGB1-GS-KL4
Part number	**607-21010**
Order text	RGB contrast sensor, 12 +/- 3mm, 25 kHz, Push Pull, teach in, pigtail 150mm with plug M12 4-pins, IP67 & IP69. For this product a new version is available: 607-21036 FT 25-RGB1-GSL-KL4. That offers additional functionality via IO-Link. More product information you can find on www.sensopart.com
Components supplied	Operating manual, Sensor

Optical data	
Scanning distance *[mm]*	12
Scanning distance tolerance *[mm]*	-3.0 ... 3.0
Light source	LED
Light color	Red
Light type	Green
Light type	Blue
Wavelength *[nm]*	633
Wavelength 2 *[nm]*	460
Wavelength 3 *[nm]*	525
Light spot size *[mm]*	1 x 4
Switching frequency ≤ *[Hz]*	≤ 25,000
Explanation of switching frequency	f = 1 / (T x Nyq x 2)

Functions	
Display, LED yellow	Switching output indicator
Display, LED green	Operating voltage indicator
Setting options	LO / DO via the teach-in button and control input Button lock via control input
Sensitivity setting	via teach-in button and control input
Teach-in modes	Mode 1: During running process Mode 2: When process at standstill

The information contained in this data sheet has been prepared with the utmost care. We reserve the right to make technical changes.

Electrical data

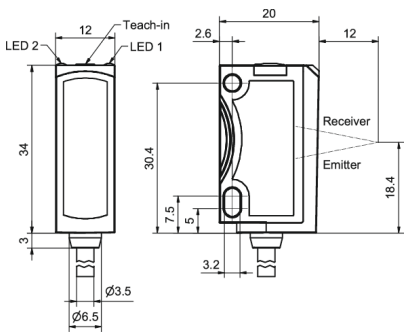
Operating voltage UB *[V DC]*	10 ... 30
Explanation of operating voltage UB	max. 10% residual ripple, within UB, ~ 50 Hz / 100 Hz
No-load current *[mA]*	≤ 30
Output current *[mA]*	≤ 100
Readiness delay *[ms]*	≤ 300
Reverse polarity protection	Yes
Short circuit protection	Yes
Response time Q *[µs]*	≤ 30
Control input	+UB = Teach-in - UB = Button locked Open = Normal operation
Protection class	2
Jitter *[µs]*	10.0
Output function	LO/DO
Switching output Q	Push-pull
Number of outputs	1

Mechanical data

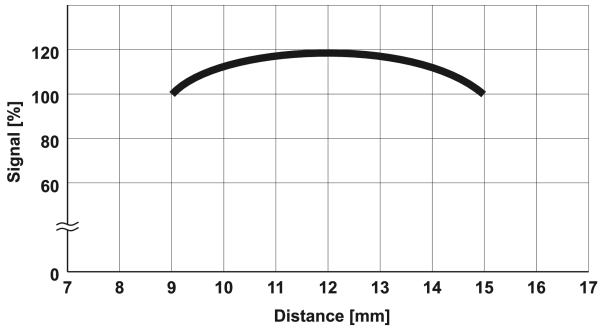
Height *[mm]*	34.0
Length *[mm]*	20.0
Width *[mm]*	12.0
Weight *[g]*	~ 20
Front panel material	PMMA
Housing material	ABS
Ambient temperature: operation *[°C]*	-20 ... 55
Explanation of operation at ambient air temperature	UL: -20|+50
Ambient temperature: storage *[°C]*	-20 ... 80
Protection class	IP 67, IP 69
Explanation of protection class	with IP 67 / IP 69 plug connected
Vibration and shock resistance	EN 60947-5-2
Connection name	Pigtail, plug M12, 4-wire, 150 mm

Technical drawings

Dimensional drawing

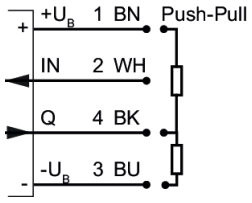


Signal history



155-01648

Connections



154-00527

Product link

https://www.sensopart.com/en/products/details/607-21010

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