



Photoelectric Through-beam Fork Sensors U-Frame

Overview

The di-soric OGU series is ideal for applications requiring quick detection of small objects with any surface type and are available with fork openings from 5 to 250mm [0.19 to 9.84 in]. The OGU series fork sensors offer high-resolution, sensitivity adjustment and selectable Light-on/Dark-on operation. Four selectable modes optimize the sensors for standard, high-resolution, power, or speed operation using I/O Link v1.1, standard mode is default.

Features

- Light-on/Dark-on Selectable
- Up to 14 kHz switching frequency
- 10-30 VDC operating voltage
- IP67 protection rating
- Sensitivity adjustment via potentiometer or IO-Link v1.1
- Standard, high-resolution, power, and speed modes configured via I/O Link v1.1



OGU041G3-T3

Photoelectric Through-beam Fork Sensors - U Frame

Part Number	Price	Light Emission	Max. Switching Frequency	Fork Opening	Housing Material	Housing Size	Weight lb [g]	Drawing Link	
OGU005G3-T3	\$153.00	infrared	14 kHz	5mm [0.19 in]	Aluminum	25 x 45 x 10mm [0.98 x 1.77 x 0.39 in]	0.07 [31.75]	PDF	
OGU010G3-T3	\$141.00		14 kHz	10mm [0.39 in]	Die-cast zinc	40 x 50 x 10mm [1.57 x 1.96 x 0.39 in]	0.06 [27.21]	PDF	
OGU020G3-T3	\$162.00		8 kHz	20mm [0.78 in]			0.11 [49.89]	PDF	
OGU021G3-T3	\$157.00	visible red	8 kHz	50 x 60 x 10mm [1.57 x 2.36 x 0.39 in]		0.15 [68.03]		PDF	
OGU030G3-T3	\$176.00	infrared	8 kHz	30mm [1.18 in]		60 x 70 x 10mm [2.36 x 2.75 x 0.39 in]	0.19 [86.18]	PDF	
OGU031G3-T3	\$176.00	visible red	8 kHz	40mm [1.57 in]		70 x 80 x 10mm [2.75 x 3.14 x 0.39 in]	0.21 [95.25]	PDF	
OGU041G3-T3	\$184.00		8 kHz	50mm [1.96 in]		80 x 80 x 10mm [3.14 x 3.14 x 0.39 in]	0.22 [99.79]	PDF	
OGU050G3-T3	\$191.00	infrared	8 kHz	60mm [2.36 in]		Aluminum	90 x 80 x 10mm [3.54 x 3.14 x 0.39 in]	0.13 [58.96]	PDF
OGU051G3-T3	\$191.00	visible red	8 kHz				70mm [2.75 in]	100 x 80 x 10mm [3.93 x 3.14 x 0.39 in]	0.15 [68.03]
OGU061G3-T3	\$196.00		8 kHz	8 kHz	80mm [3.14 in]	Die-cast zinc	100 x 80 x 10mm [3.93 x 3.14 x 0.39 in]	0.26 [117.93]	PDF
OGU071G3-T3	\$206.00	infrared	8 kHz	100 x 105 x 10mm [3.93 x 4.13 x 0.39 in]			0.28 [127.00]	PDF	
OGU080G3-T3	\$206.00	visible red	8 kHz	90mm [3.54 in]	Aluminum	110 x 80 x 10mm [4.33 x 3.14 x 0.39 in]	0.17 [77.11]	PDF	
OGU081/80G3-T3	\$260.00		8 kHz	100mm [3.93 in]	Die-cast zinc	120 x 80 x 10mm [4.72 x 3.14 x 0.39 in]	0.29 [131.54]	PDF	
OGU081G3-T3	\$206.00		8 kHz	144 x 90 x 12mm [5.66 x 3.54 x 0.47 in]		Aluminum	144 x 175 x 12mm [5.66 x 6.88 x 0.47 in]	0.63 [285.76]	PDF
OGU091G3-T3	\$226.00		8 kHz	144 x 235 x 12mm [5.66 x 9.25 x 0.47 in]	0.74 [335.65]		PDF		
OGU101G3-T3	\$213.00	visible red	8 kHz	170mm [6.69 in]	Die-cast zinc	194 x 140 x 12mm [7.63 x 5.51 x 0.47 in]	1.07 [485.34]	PDF	
OGU120G3-T3	\$213.00		infrared	8 kHz		244 x 140 x 12mm [9.60 x 5.51 x 0.47 in]	1.21 [548.84]	PDF	
OGU121/145G3-T3	\$269.00		8 kHz	120mm [4.72 in]	Aluminum	274 x 140 x 12mm [10.78 x 5.51 x 0.47 in]	0.77 [349.26]	PDF	
OGU121/205G3-T3	\$316.00		8 kHz			50 x 60 x 10mm [1.57 x 2.36 x 0.39 in]	0.15 [68.03]	PDF	
OGU121G3-T3	\$213.00		8 kHz	170mm [6.69 in]	Die-cast zinc	70 x 80 x 10mm [2.75 x 3.14 x 0.39 in]	0.19 [86.18]	PDF	
OGU171G3-T3	\$325.00		8 kHz			100 x 80 x 10mm [3.93 x 3.14 x 0.39 in]	0.26 [117.93]	PDF	
OGU221G3-T3	\$340.00		6.5 kHz	220mm [8.66 in]	Aluminum	144 x 90 x 12mm [5.66 x 3.54 x 0.47 in]	0.66 [299.37]	PDF	
OGU251G3-T3	\$347.00		6.5 kHz	250mm [9.84 in]		274 x 140 x 12mm [10.78 x 5.51 x 0.47 in]	0.77 [349.26]	PDF	
OGUL031G3-T3	\$285.00	Class 1 red laser	10 kHz	30mm [1.18 in]	Die-cast zinc	50 x 60 x 10mm [1.57 x 2.36 x 0.39 in]	0.15 [68.03]	PDF	
OGUL051G3-T3	\$300.00		10 kHz	50mm [1.96 in]		70 x 80 x 10mm [2.75 x 3.14 x 0.39 in]	0.19 [86.18]	PDF	
OGUL081G3-T3	\$315.00		10 kHz	80mm [3.14 in]		100 x 80 x 10mm [3.93 x 3.14 x 0.39 in]	0.26 [117.93]	PDF	
OGUL121G3-T3	\$321.00		10 kHz	120mm [4.72 in]		144 x 90 x 12mm [5.66 x 3.54 x 0.47 in]	0.66 [299.37]	PDF	



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Photoelectric Through-beam Fork Sensors - U Frame Specifications	
Operating Voltage	10–30 VDC
Maximum No-load Current	30mA
Insulation Voltage Endurance	500V
Protection Class	III, operation on protective low voltage
Operation Modes	Standard, high resolution, power, speed
Interface	IO-Link (V1.1, COM2 38.4 kBd, Smart Sensor Profile)
Light Source	LED
Output State	Light-On / Dark-On (selectable)
Switching Output	Push-pull, NPN or PNP, 100mA
Operating Temperature	-25 to 60°C [-13 to 140°F]
Connection	3-pin M8 quick-disconnect (purchase cable separately)
Protection Type	IP67
Agency Approval	cULus File E303138, CE, UKCA

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

Wiring Diagram

