

ifm photoelectric sensors, article list

54 ifm photoelectric sensors that GEARWELL lists (retro-reflective, diffuse reflection and through-beam sensors, laser distance sensors, color and contrast sensors and fiber-optic amplifiers), with the ifm type designation and key technical data: range, type of light, housing, outputs, operating voltage, connection and protection rating. Each line is taken from the technical data on the ifm product page for that article. Ask us for availability, lead time and price for any article below.

Retro-reflective sensors

ORDER NUMBER	DESCRIPTION	
04P200	O4P-DPKG/US100; range 0.3...18 m (prismatic reflector Ø 80 E20005); red light (624 nm); housing 74.4 x 27 x 63.8 mm; 1 PNP switching output (dark-on mode); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
04P501	O4P-FPKG/2M; range 0.3...22 m (prismatic reflector Ø 80 E20005); red light (624 nm); housing 74.4 x 27 x 63.8 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; 2 m cable (PUR, 3 x 0.34 mm ²); IP67	Request a Quote
06P202	O6P-FPKG/AS/3P; range 0.05...5 m (prismatic reflector Ø 80 E20005); red light (633 nm); housing 46 x 13 x 21 mm; 1 PNP switching output (light-on/dark-on mode selectable); 10...30 V DC; M8 connector (A-coded, 3 contacts); IP65, IP67	Request a Quote
0A0107	OAP-FKOA/T; range 0.2...8 m (prismatic reflector Ø 80 E20005); red light (660 nm); housing 90 x 30 x 70 mm; relay output (light-on/dark-on mode programmable); 20...250 V AC/DC; terminals up to 1.5 mm ² (cable gland M16 x 1.5, cable sheath Ø 4.5...10 mm); IP65	Request a Quote
0G5027	OGR-DPKG/US-100-DPS; range 3 m (prismatic reflector Ø 80 E20005); infrared light (880 nm); housing M18 x 1, L = 90 mm; 1 PNP switching output (dark-on mode); 10...55 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote
0GP100	OGP-DPKG/US; range 0.05...2.5 m (prismatic reflector Ø 80 E20005); red light (645 nm); housing M18 x 1, L = 44 mm; 1 PNP switching output (dark-on mode); 10...30 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0GP281	OGP-HPKG/US/CUBE; range 0.1...4 m (prismatic reflector Ø 80 E20005); red light (662 nm); housing 52.6 x 19 x 36 mm; 1 PNP switching output (light-on mode), IO-Link; 10...30 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote
0GP500	OGP-FPKG/US100; range 0.03...5 m (prismatic reflector Ø 80 E20005); red light (624 nm); housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0GP700	OGPLFPKG/US100; range 0.2...15 m (prismatic reflector Ø 80 E20005); red light (655 nm), laser protection class 1; housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote

ORDER NUMBER	DESCRIPTION	
OJ5036	OJPLFPKG/SO/AS; range 8 m (prismatic reflector 50 x 50 mm E20722); red light (650 nm), laser protection class 1; housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5104	OJP-FPKG/FO/AS; range 0...2 m (prismatic reflector Ø 80 E20005); red light (660 nm); housing 35 x 24 x 11 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5114	OJPLFPKG/FO/AS; range 8 m (prismatic reflector 50 x 50 mm E20722); red light (650 nm), laser protection class 1; housing 35 x 24 x 11 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5126	OJP-FPKG/SO/AS; range 0...2 m (prismatic reflector Ø 80 E20005); red light (660 nm); housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5136	OJPLFPKG/SO/AS; range 8 m (prismatic reflector 50 x 50 mm E20722); red light (650 nm), laser protection class 1; housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5186	OJPGFPKG/SO/AS; range 0.2...1.5 m (prismatic reflector 50 x 50 mm E20722); red light (660 nm); housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5189	OJPGFNKG/SO/AS; range 0.2...1.5 m (prismatic reflector 50 x 50 mm E20722); red light (660 nm); housing 35 x 11 x 24 mm; 1 NPN switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
OJ5190	OJPGFPKG/FO/0,15M/US; range 0.2...1.5 m (prismatic reflector 50 x 50 mm E20722); red light (660 nm); housing 35 x 24 x 11 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
OL0010	OLP-FKOA/SL/LS-500; range 0.3...5 m (prismatic reflector Ø 80 E20005); red light (660 nm); housing 75 x 27 x 62 mm; relay output (light-on/dark-on mode programmable); 20...250 V AC/DC; 7/8" connector (A-coded, 5 contacts); IP67	Request a Quote

Diffuse reflection sensors

ORDER NUMBER	DESCRIPTION	
O4H201	O4H-DPKG/US100; range 100...2000 mm (white paper 200 x 200 mm 90 % remission); red light (624 nm); housing 74.4 x 27 x 63.8 mm; 1 PNP switching output (dark-on mode); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote

ORDER NUMBER	DESCRIPTION	
04H501	O4H-FPKG/2M; range 100...2600 mm (white paper 200 x 200 mm 90 % remission); red light (624 nm); housing 74.4 x 27 x 63.8 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; 2 m cable (PUR, 3 x 0.34 mm ²); IP67	Request a Quote
06T202	O6T-FPKG/AS/3P; range 5...500 mm (white paper 200 x 200 mm 90 % remission); red light (633 nm); housing 46 x 13 x 21 mm; 1 PNP switching output (light-on/dark-on mode selectable); 10...30 V DC; M8 connector (A-coded, 3 contacts); IP65, IP67	Request a Quote
0F5012	OFT-FPKG/US-100; range 1...200 mm (white paper 200 x 200 mm); infrared light (880 nm); housing M12 x 1, L = 74 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote
0F5027	OFB-FPKG/US-100; range 1...400 mm (white paper 200 x 200 mm); infrared light (880 nm); housing M12 x 1, L = 74 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote
0G0034	OGT-HBOA; range 1...600 mm (white paper 200 x 200 mm 90 % remission); infrared light (880 nm); housing M18 x 1, L = 78.5 mm; switching output (light-on mode); 20...250 V AC/DC; 2 m cable (PVC, 2 x 0.5 mm ²); IP67	Request a Quote
0GH281	OGH-HPKG/US/CUBE/200MM; range up to 200 mm (white paper 200 x 200 mm 90 % remission); red light (645 nm); housing 52.6 x 19.1 x 35.9 mm; 1 PNP switching output (light-on mode), IO-Link; 10...30 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote
0GH302	OGH-HPKG/US100; range up to 200 mm (white paper 200 x 200 mm 90 % remission); red light (624 nm); housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on mode); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67, IP68, IP69K	Request a Quote
0GH500	OGH-FPKG/US100; range 15...300 mm (white paper 200 x 200 mm 90 % remission); red light (624 nm); housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0GH580	OGH-FPKG/US/CUBE; range 15...200 mm (white paper 200 x 200 mm 90 % remission); red light (645 nm); housing 52.6 x 19 x 35.6 mm; 1 PNP switching output (light-on/dark-on mode programmable), IO-Link; 10...30 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote
0GH700	OGHLFPKG/US100; range 20...200 mm (white paper 200 x 200 mm 90 % remission); red light (655 nm), laser protection class 1; housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote
0GT500	OGT-FPKG/US100; range 2...800 mm (white paper 200 x 200 mm 90 % remission); red light (624 nm); housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote

ORDER NUMBER	DESCRIPTION	
0I5003	OIT-FPKG; range 3...700 mm (white paper 200 x 200 mm); infrared light (880 nm); housing M30 x 1.5, L = 125 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...55 V DC; terminals up to 1.5 mm ² (cable gland M20 x 1.5, cable sheath Ø 7...13 mm); IP65	Request a Quote
0J5048	OJH-FPKG/SO/AS; range 15...400 mm (white paper 200 x 200 mm 90 % remission); red light (660 nm); housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
0J5144	OJH-FPKG/FO/AS; range 15...400 mm (white paper 200 x 200 mm 90 % remission); red light (660 nm); housing 35 x 24 x 11 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
0J5148	OJH-FPKG/SO/AS; range 15...400 mm (white paper 200 x 200 mm 90 % remission); red light (660 nm); housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
0J5154	OJHLPKG/SO/AS; range 15...200 mm (white paper 200 x 200 mm 90 % remission); red light (650 nm), laser protection class 1; housing 35 x 11 x 24 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
0U5034	OUT-HPKG/US-100-DPS; range 1...200 mm (white paper 200 x 200 mm); infrared light (880 nm); housing 28 x 16 x 51 mm; 1 PNP switching output (light-on mode); 10...55 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote

Through-beam sensors (transmitters and receivers)

ORDER NUMBER	DESCRIPTION	
08S200	O8S-OKKG/2,0M; range up to 3 m; red light (633 nm); housing 28.1 x 8.1 x 14.4 mm; transmitter, no output; 10...30 V DC; 2 m cable (PVC, black, Ø 2.9 mm, 2 x 0.08 mm ²); IP65, IP67	Request a Quote
0F5021	OFS-OKKG/US-100; range up to 4 m; infrared light (880 nm); housing M12 x 1, L = 74 mm; transmitter, no output; 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote
0GE100	OGE-DPKG/US; range up to 8 m; red light (645 nm); housing M18 x 1, L = 44 mm; 1 PNP switching output (dark-on mode); 10...30 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0GE200	OGE-DPKG/US100; range up to 20 m; red light (624 nm); housing M18 x 1, L = 60 mm; 1 PNP switching output (dark-on mode); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0GE201	OGE-HPKG/US100; range up to 20 m; red light (624 nm); housing M18 x 1, L = 60 mm; 1 PNP switching output (light-on mode); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0GE280	OGE-DPKG/US/CUBE; range 20 m; red light (662 nm); housing 52.6 x 19 x 36 mm; 1 PNP switching output (dark-on mode), IO-Link; 10...30 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote

ORDER NUMBER	DESCRIPTION	
0GE701	OGELFPKG/US100; range up to 2 m; red light (655 nm); housing M18 x 1, L = 72 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote
0GS200	OGS-OOKG/US100; range up to 20 m; red light (624 nm); housing M18 x 1, L = 60 mm; transmitter, no output; 10...36 V DC; M12 connector (A-coded, 4 contacts); IP67	Request a Quote
0J5020	OJELFPKG/FO/AS; range up to 1 m; red light (650 nm); housing 35 x 24 x 11 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote
0J5038	OJSLOOKG/SO/AS; range up to 15 m; red light (650 nm), laser protection class 1; housing 35 x 11 x 24 mm; transmitter, no output; 10...30 V DC; M8 connector (A-coded, 4 contacts); IP67	Request a Quote

Laser distance, color and contrast sensors, fiber-optic amplifiers

ORDER NUMBER	DESCRIPTION	
01D100	O1DLF3KG/IO-LINK; measuring range 0.2...10 m (white paper 200 x 200 mm 90 % remission); laser protection class 2; housing 59 x 42 x 52 mm; 2 PNP switching outputs (normally open/closed configurable), 1 analog output (4...20 mA or 0...10 V), IO-Link; 18...30 V DC; M12 connector (A-coded, 5 contacts); IP67	Request a Quote
01D300	O1DLF3KG/IO-LINK; measuring range 0.2...10 m (white paper 200 x 200 mm 90 % remission); laser protection class 2; housing 59 x 42 x 52 mm; 2 PNP switching outputs (normally open/closed programmable), 1 analog output (4...20 mA or 0...10 V), IO-Link; 18...30 V DC; M12 connector (A-coded, 5 contacts); IP67	Request a Quote
05C500	O5C-MAKG/US100; range 15...19 mm; red (625 nm), green (525 nm) and blue (465 nm) light; housing 56 x 18.2 x 46.8 mm; 1 PNP/NPN switching output with automatic load detection (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 5 contacts); IP67	Request a Quote
05K500	O5K-FAKG/US100; range 18...22 mm; red (625 nm), green (525 nm) and blue (465 nm) light; housing 56 x 18.2 x 46.8 mm; 1 PNP/NPN switching output with automatic load detection (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 5 contacts); IP67	Request a Quote
0ID200	OIDLCPKG/US; measuring range 0.03...2 m; red light (650 nm), laser protection class 2; housing M30 x 1.5, L = 100 mm; 2 PNP switching outputs (complementary normally open/normally closed), IO-Link; 10...30 V DC; M12 connector (A-coded, 4 contacts); IP65, IP67	Request a Quote
OK5008	OKF-FPKG/US-100-DPF; range 0...40 mm (diffuse reflection sensor); range 0...0.12 m (through-beam sensor); red light (660 nm); housing 50 x 19 x 35 mm; 1 PNP switching output (light-on/dark-on mode programmable); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote
005004	OOF-FPKG/M12/GL2; range 0...200 mm (diffuse reflection sensor); range up to 0.4 m (through-beam sensor); red light (630 nm); housing 79.9 x 76.9 x 70.7 mm; 1 PNP switching output (light-on/dark-on mode programmable); 12...36 V DC; M12 connector (A-coded, 8 contacts); IP65	Request a Quote

ORDER NUMBER	DESCRIPTION	
OU5043	OUF-HPKG/US-100-DPS; range 0...40 mm (diffuse reflection sensor); range 0...0.12 m (through-beam sensor); infrared light (880 nm); housing 28 x 16 x 56 mm; 1 PNP switching output (light-on mode); 10...36 V DC; M12 connector (A-coded, 4 contacts); IP65	Request a Quote

Prepared by GEARWELL, 2026-10-14. ifm is a trademark of ifm electronic gmbh. GEARWELL is an independent supplier and is not affiliated with or authorized by ifm electronic. Article numbers, type designations and technical data are taken from the ifm electronic product pages at www.ifm.com (English, retrieved 2026-10-14). They are given for identification; confirm the article number on the sensor label before ordering. Official documentation: www.ifm.com.