

Distance Measuring Sensors

(Ta = 25°C)

Model No.	Features	Absolute maximum ratings		Electro-optical characteristics*1				
		V _{CC} (V)	T _{opr} (°C)	Distance measuring range (cm)	V _{OH} (V) MIN.	V _{OL} (V) MAX.	Dissipation current	
							Operating (mA)	Standby (μA)
GP2D02J0000F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, 8-bit serial output	-0.3 to +10	-10 to +60	10 to 80	V _{CC} - 0.3	0.3	MAX. 35	MAX. 8
GP2D12J0000F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Linear voltage output	-0.3 to +7	-10 to +60	10 to 80	V _O (TYP.) = 0.4 V (at L = 80 cm), ΔV _O (TYP.) = 2.0 V (at L: 80 cm → 10 cm)		MAX. 50	-
GP2Y0A21YK0F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Linear voltage output	-0.3 to +7	-10 to +60	10 to 80	V _O (TYP.) = 0.4 V (at L = 80 cm), ΔV _O (TYP.) = 1.9 V (at L: 80 cm → 10 cm)		MAX. 40	-
GP2D120XJ00F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Linear voltage output	-0.3 to +7	-10 to +60	4 to 30	V _O (TYP.) = 0.4 V (at L = 30 cm), ΔV _O (TYP.) = 2.25 V (at L = 30 cm → 4 cm)		MAX. 50	-
GP2Y0D310K	Digital voltage output according to the measured distance (at 10 cm) of GP2Y0D340K	-0.3 to +7	-10 to +60	-	V _{CC} - 0.3	0.6	MAX. 35	-
GP2Y0D340K	Compact, thin type (15 x 9.6 x 8.7 mm: sensor part), Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Digital voltage output according to the measured distance (at 40 cm)	-0.3 to +7	-10 to +60	-	V _{CC} - 0.3	0.6	MAX. 35	-
GP2D15J0000F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Digital voltage output	-0.3 to +7	-10 to +60	10 to 80	V _{CC} - 0.3	0.6	MAX. 50	-
GP2Y0D21YK0F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Digital voltage output	-0.3 to +7	-10 to +60	10 to 80	V _{CC} - 0.3	0.6	MAX. 40	-
GP2D150AJ00F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Digital voltage output	-0.3 to +7	-10 to +60	3 to 30	V _{CC} - 0.3	0.6	MAX. 50	-
GP2D150MJ00F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Digital voltage output	-0.3 to +7	-10 to +60	3 to 30	V _{CC} - 0.3	0.6	MAX. 50	-
GP2Y0D413K0F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, Digital voltage output	-0.3 to +7	-10 to +60	3 to 30	V _{CC} - 0.3	0.6	-	-
GP2Y0D02YK0F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit, long distance measuring sensor unit, (No external control signal required), Digital voltage output according to the measured distance (at 80 cm)	-0.3 to +7	-10 to +60	20 to 150	V _{CC} - 0.3	0.6	MAX. 50	-
GP2Y0A02YK0F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit	-0.3 to +7	-10 to +60	20 to 150	V _O (TYP.) = 0.4 V (at L = 150 cm), ΔV _O (TYP.) = 2.0 V (at L = 150 cm → 20 cm)		MAX. 50	-
☆GP2Y0A700K0F	Distance measuring sensor united with PSD*, infrared LED and signal processing circuit	-	-10 to +70	100 to 500	-		TYP. 33	-

* PSD: Position Sensitive Detector

*1 V_{CC} = 5 V

Notice

In the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using any SHARP devices shown in catalogs, data books, etc.

Except where specially indicated, models listed on this page comply with the RoHS Directive*. For details, please contact SHARP.
*RoHS Directive: Prohibits use of lead, cadmium, hexavalent chromium, mercury and specific brominated flame retardants (PBBs and PBDEs), with certain exceptions.

Contact SHARP in order to obtain the latest device specification sheets before using any SHARP device.