Part 1: Sharp–Socle Distance Sensor Selection

Manufacturer	Category	Part Number	Output Type	Package Type	Distance (cm)																			
					0.5	1	1.5	2	4	5	10	15	20	24	30	40	50	70	80	100	120	150	240	300	550
SHARP	DMS	GP2Y0A02SKDF	Analog	Standard									20									150			
SHARP	DMS	GP2Y0A02YK0F	Analog	Standard									20									150			
SHARP	DMS	GP2Y0A21YK0F	Analog	Standard							10								80						
SHARP	DMS	GP2Y0A41SK0F	Analog	Standard					4						30										
SHARP	DMS	GP2Y0A51SK0F	Analog	Standard				2				15													
SHARP	DMS	GP2Y0AF15X	Analog	Compact, connector			1.5					15													
SHARP	DMS	GP2Y0D02YK0F	Digital 1-bit	Standard															80						
SHARP	DMS	GP2Y0D21YK0F	Digital 1-bit	Standard										24											
SHARP	DMS	GP2Y0E02A	Analog	Compact, CMOS					4								50								
SHARP	DMS	GP2Y0E02B	Digital I2C	Compact, CMOS					4								50								
SHARP	DMS	GP2Y0E03	Analog, Digital I2C	Compact, CMOS					4								50								
SHARP	DMS	GP2Y0A60SZLF	Analog	Compact							10											150			
SHARP	DMS	GP2Y0A710K0F	Analog	Standard																100					550
SHARP	TOF Sensor	GP2AP01VT10F	I2C	Very Compact									10	Gray card - 17%		40									
													10	White card - 88% reflectance							120			
FOXCONN	TOF Module	MTOF171000C0	UART	Compact				2	Gray card									70						
								2	White card												120			
FOXCONN	TOF Module	FSTOF2002C0U	UART	Compact							10	White card											240		
FOXCONN	TOF Module	FSTOF2003C0I	I2C	Compact		1	White card								30										

Socle Technology Corp. (Foxconn) is the official supplier of Sharp optoelectronics and sensors in North America, China and Taiwan.
Authorized distributors of Sharp optoelectronics components include Digi-Key, Future, Mouser and WPG Americas.

Line-up of Distance Measuring Sensor (DMS)

SHARP
Be Original.

DMS

Analog output type

Standard type

GP2Y0A51SK0F	GP2Y0A41SK0F	GP2Y0A21YK0F	GP2Y0A02YK0F
2～15 cm 27 x 10.8 x12H mm	4～30 cm 29.5x 18.9 x13.5H mm	10～80 cm 29.5x 18.9 x13.5H mm	20～150 cm 29.5x 18.9 x21.6H mm

·····Measuring range
·····Package size

Compact connector type

GP2Y0AF15 ＊	GP2Y0AF30 ＊
1.5～15 cm 21.2mm×8.5mm×6.3H mm	4～30 cm 20mm×8.5mm×9.0H mm

·····Measuring range
·····Package size

I2C output type

Compact& Hi-accuracy CMOS type

GP2Y0E02A
Measuring range   4～50 cm   18.9 x 8 x5.2(height) mm

Compact& Hi-accuracy CMOS type

GP2Y0E02B
Measuring range   4～50 cm   18.9 x 8 x5.2(height) mm

Both Analog / I2C type

Compact& Hi-accuracy CMOS type

GP2Y0E03
Measuring range   4～50 cm   16.7 x 11 x5.2(height) mm

1bit Hi/Low digital Output type

Standard type

GP2Y0D413K0F	GP2Y0D21YK0F	GP2Y0D02YK0F
13 cm 29.5×13×13.5 mm	24cm 29.5x 18.9 x13.5mm	80 cm 29.5x 18.9 x21.6 mm

·····Identifying distance
·····Package size

SHARP