



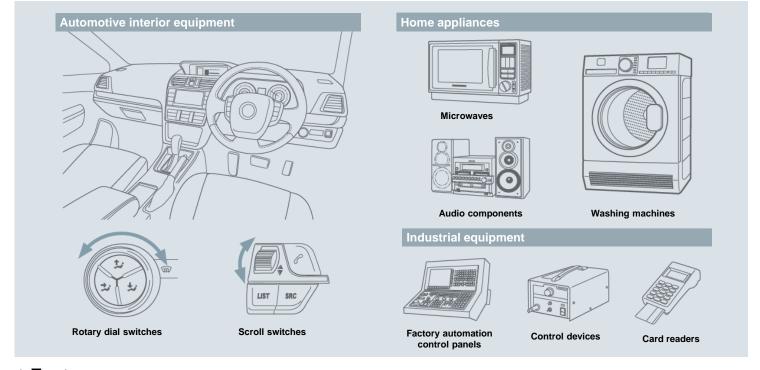
Stanley Electric's Photoreflector Sensor

Long lifetime, high reliability enabled through contactless sensing

Compatible with high operating temperatures (Max. 100°C)



Applications



Features

Contactless sensing

Increased flexibility of design compared to mechanical sensors Sensing through IR LED emission and photodetector detection Short range detection (max. 1 to 2 mm) Compact size (1.1 mm height)
Downsizing of final unit

Component cost reduction

Compatible with JEDEC MSL 2a

Specifications



Part name		KUA0121C	Units
Peak wavelength	λр	940	nm
Photocurrent	I _C	300 (V_{CE} =5V, I_{F} =5mA, d=1mm)	μΑ
Max. leakage current	I _{LEAK}	2 ($V_{\text{cz}}\text{=}5\text{V},I_{\text{F}}\text{=}5\text{mA},\text{no reflector})$	μΑ
Response time	tr/tf	10 / 10 (V _{CE} =10V, RL=100Ω)	μsec
Operating temperature	Topr	-40 to +100	°C
Storage temperature	Tstg	-40 to +120	°C
Size	L×W×H	3.6 × 1.9 × 1.1	mm
JEDEC MSL	_	2a	_

Conditions : Ta=25°C