

KT3G-P1116







 Model Name
 > KT3G-P1116

 Part No.
 > 1019446



At a glance

- · Very small housing
- · 3-color RGB technology or white LED
- · Simple teach-in (when machine is stopped or during operation)
- · Integrated switching threshold adjustment for high-gloss objects
- · Reliable operation for jittering materials
- Switching frequency of 10 kHz

Your benefits

- Compact design fits in applications with limited space
- 3-color RGB technology enables universal operation with an extremely wide range of weak contrast combinations
- · White LED model detects several different marks
- Simple teach-in to optimally set transmission color, switching point and surface shine
- Very good contrast resolution for detecting print marks, even where the variation between the mark and the background is minimal
- · Automatic adaptation for high-gloss objects ensures high throughput
- Reliable operation for jittering materials
- · Accurate positioning in rapid production processes

The product is currently being phased out and can be ordered until December

31, 2015. Please contact your SICK sales representative for more information about a replacement product. For new projects please select a product out of the KTM family.



Features

Sensing distance: Sensing distance tolerance: Light source ¹⁾: Wave length: Light spot size: Light spot direction ²⁾: Type of light: Dimensions (W x H x D): Housing design (light emission): Teach-in mode: 12.5 mm ± 2 mm LED 520 nm 1.5 mm x 3.5 mm Vertical Visible green light 12 mm x 40 mm x 22 mm Rectangular Static 2-point teach-in

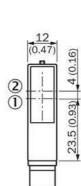


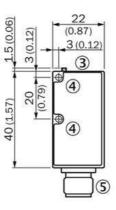
Ripple ¹⁾ :	≤ 5 Vpp
Current consumption $2^{(2)}$:	< 35 mA
Switching frequency ³⁾ :	10 kHz
Response time ⁴⁾ :	50 µs
Output type:	PNP: HIGH = VS- ≤ 2 V / LOW approx. 0 V
Switching mode:	PNP
Input, teach-in (ET):	PNP:, Run: U < 2 V, Teach: U = 10 V < U
Retention time (ET):	25 ms, non-volatile memory
Connection type:_	Connector M12, 4-pin
Protection class ⁵⁾ :	II
Circuit protection:	Output Q short-circuit protected, Interference suppression, VS connections reverse-polarity protected
Enclosure rating:	IP 67, IP 67
Weight:	11 g
Housing material:	ABS, Plastic
Output current Imax .:	100 mA
Supply voltage:	12 V DC 24 V DC ⁶⁾
Fieldbus interface:	-
¹⁾ May not exceed or fall short of V tolerances $^{2)}$ W	/ithout load $^{3)}$ With light/dark ratio 1:1 $^{4)}$ Signal transit time with resistive load $^{5)}$ Reference voltage DC 50 V $^{6)}$
Limit values: DC 12 V (-10 %) DC 24 V (+20 %). O	

Ambient data

Shock load: UL File No.: Ambient operating temperature: Ambient storage temperature: According to IEC 60068 NRKH.E181493 & NRKH7.E181493 -10 °C ... +55 °C -20 °C ... +75 °C

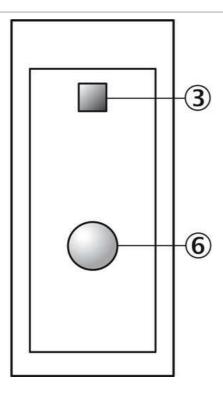








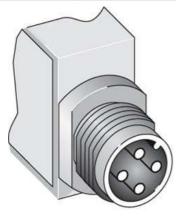
Adjustments



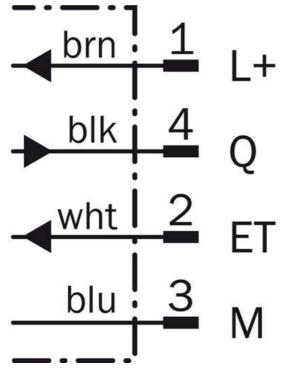
- |1| Center of optical axis, sender
- 2 Center of optical axis, receiver
- |3| LED signal strength indicator
- |4| Mounting hole, Ø 3 mm
- |5| Connector M12
- |6| Teach-in button

|3| LED signal strength indicator|6| Teach-in button

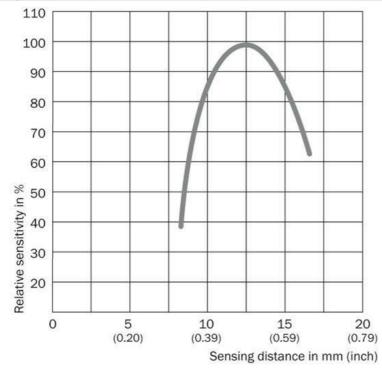
Connection type



Connection diagram



Sensing distance



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