



Contrast sensors KT5, KTL5-2 Fiber Optic

KTL5G-2N11



Model Name > [KTL5G-2N11](#)
Part No. > [1016295](#)



Illustration may differ

At a glance

- Various heat-resistant fiber-optic cable models are available
- Various teach-in methods, including potentiometer
- Analog output
- Switching frequency of 10 kHz

Your benefits

- Reliable contrast detection
- Flexible integration into machines due to minimal space requirements and various fiber-optic cable versions
- Durable, glass fiber-optic cables
- Reliable operation in adverse environmental conditions, such as extreme temperatures and moisture
- Resistant to aggressive cleaning agents
- Compact design fits in applications with limited space



Features

Sensing distance:	Dependent on the fiber-optic cable
Light source ¹⁾ :	LED
Wave length:	520 nm
Light spot size:	Dependent on the fiber-optic cable
Adjustment:	Manual adjustment, potentiometer
Output function:	Light/dark switching
Type of light:	Visible green light

¹⁾ Average service life of 100,000 h at $T_A = +25\text{ °C}$

Mechanics/electronics

Ripple ¹⁾ :	$\leq 5\text{ Vpp}$
Power consumption ²⁾ :	$< 80\text{ mA}$
Switching frequency ³⁾ :	10 kHz
Response time ⁴⁾ :	50 μs
Switching output:	NPN: HIGH = approx. VS / LOW $\leq 2\text{ V}$
Switching output:	NPN
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
Weight:	400 g
Housing material:	Metal, Zinc diecast
Output current I _{max} :	100 mA
Supply voltage:	10 V DC ... 30 V DC ⁶⁾

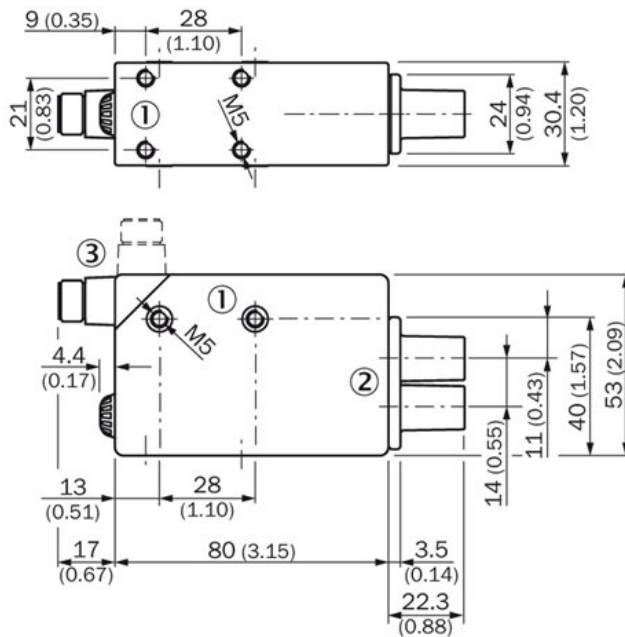
1) May not exceed or fall short of V_S tolerances 2) Without load 3) With light/dark ratio 1:1 4) Signal transit time with resistive load 5) Reference voltage DC 50 V ⁶⁾

Limit values: operation in short-circuit protected network max. 8 A

Ambient data

Shock load:	According to IEC 60068
UL File No.:	NRKH.E181493 & NRKH7.E181493
Ambient operating temperature:	-10 °C ... +55 °C
Ambient storage temperature:	-25 °C ... +75 °C

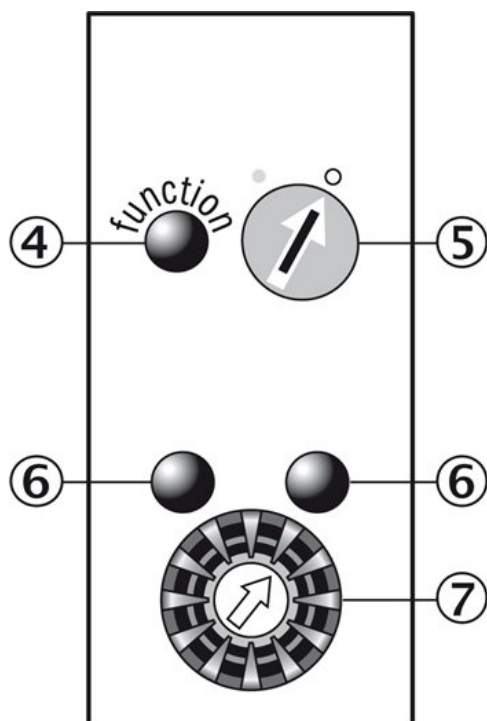
Dimensional drawing



- [1] M5 threaded mounting hole, 5.5 mm deep
- [2] Fiber-optic adapter (M12 x 1 internal thread)
- [3] Connector M12 (rotatable up to 90°)

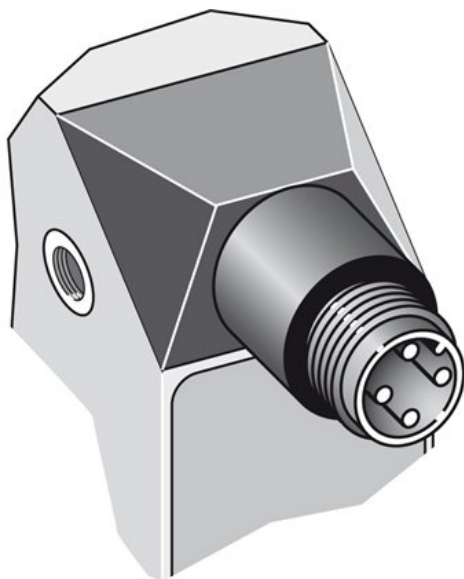
All dimensions in mm (inch)

Adjustments

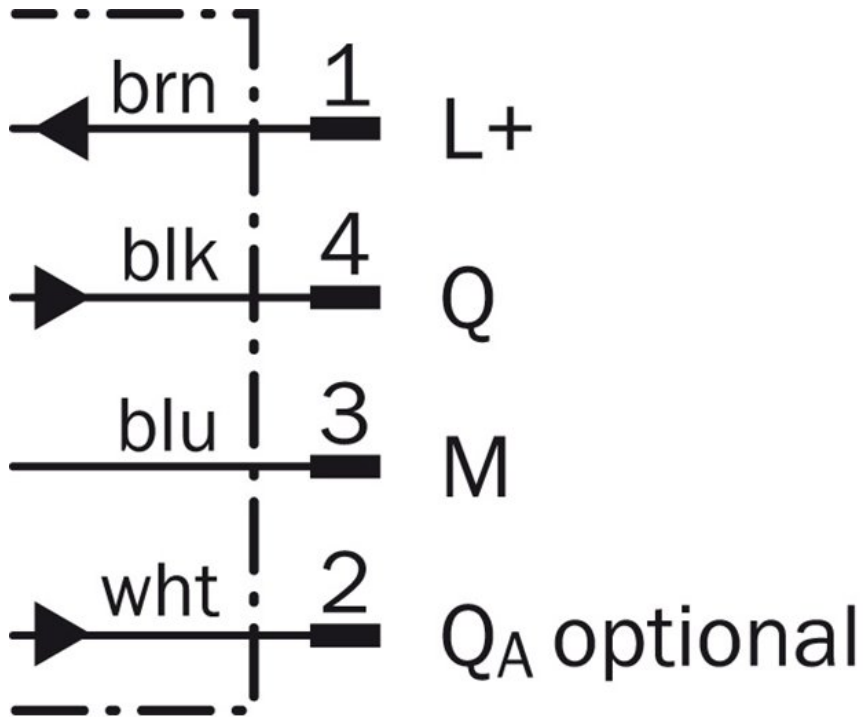


- |4| Function signal indicator (yellow)
- |5| Pre-selection switch
- |6| Adjustment indicators (green)
- |7| Switching threshold adjustment

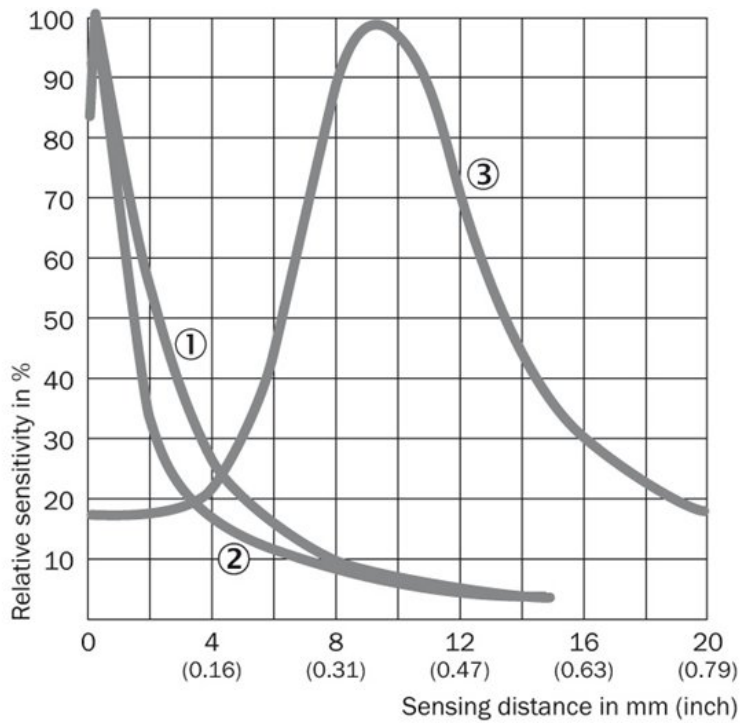
Connection type



Connection diagram



Sensing distance



- [1] Fiber-optic cable LBST 32900
- [2] Fiber-optic cable LBSR 32900
- [3] Fiber-optic cable OCSL

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