



Contrast sensors KT5, KTH5-2 Hologram

KTH5W-2P1216D



Model Name > KTH5W-2P1216D
Part No. > 1028249



At a glance

- Bar graph display helps with adjustment and alignment
- Detection reliability display
- Fine adjustment possible using +/- pushbutton
- 50 µs response time for high throughput
- Gloss adaptation specifically for holograms

Your benefits

- All holograms are detected reliably
- Simple and quick object teach-in saves time
- Precise front edge detection of the hologram for high end products
- Reliable operation, even with jittering and shiny materials
- Two interchangeable light exits for flexible integration into the system



Features

Sensing distance ¹⁾ :	20 mm
Sensing distance tolerance:	± 3 mm
Light source ²⁾ :	LED
Wave length:	470 nm, 525 nm, 640 nm
Light emission:	Long and short side of housing, exchangeable
Light spot size:	1.5 mm x 5.5 mm
Light spot direction ³⁾ :	Vertical
Type of light:	Visible blue light, Visible green light, Visible red light
Dimensions (W x H x D):	30.4 mm x 53 mm x 80 mm
Housing design (light emission):	Rectangular
Teach-in mode:	Static 2-point teach-in

¹⁾ From front edge of lens ²⁾ Average service life of 100,000 h at $T_A = +25^\circ\text{C}$ ³⁾ In relation to long side of housing

Mechanics/electronics

Ripple ¹⁾ :	≤ 5 Vpp
Power consumption ²⁾ :	< 130 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 _V

Retention time (ET):	25 ms, non-volatile memory
Connection type:	Connector M12, 5-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⁾
Fieldbus interface:	-

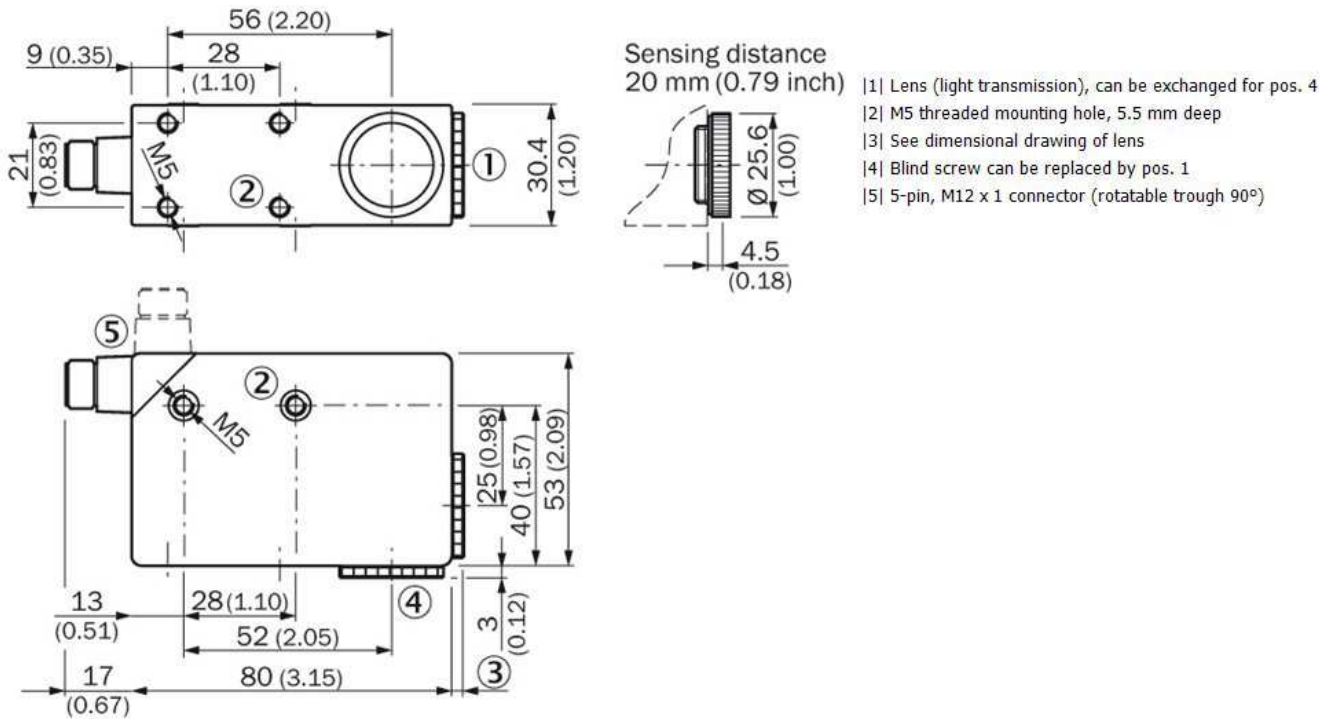
¹⁾ May not exceed or fall short of V_S tolerances ²⁾ Without load ³⁾ With light/dark ratio 1:1 ⁴⁾ Signal transit time with resistive load ⁵⁾ Reference voltage DC 50 V ⁶⁾

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

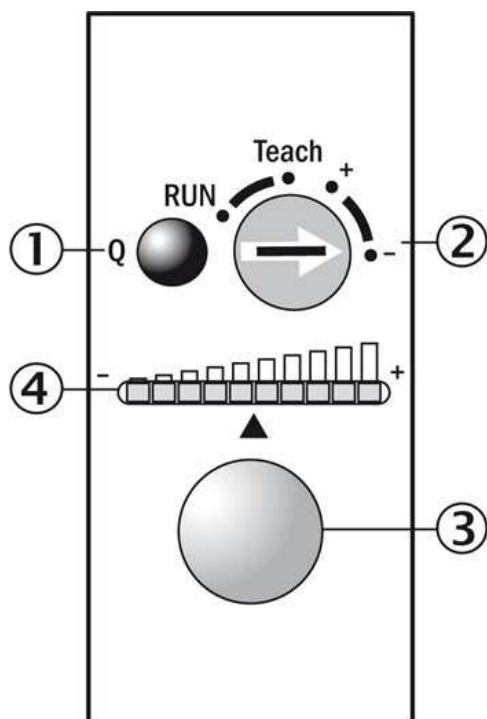
Ambient data

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

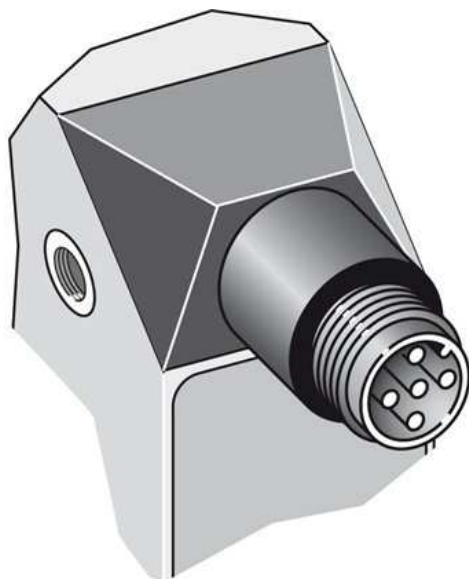


Adjustments

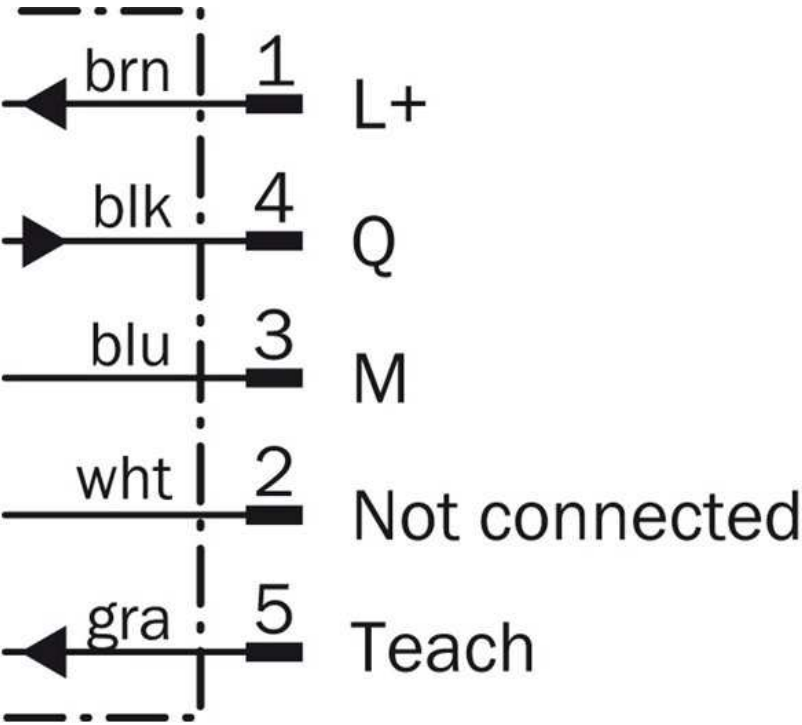


- |1| Function signal indicator (yellow)
- |2| Pre-selection switch
- |3| Teach-in button
- |4| Bar graph (green)

Connection type



Connection diagram



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