
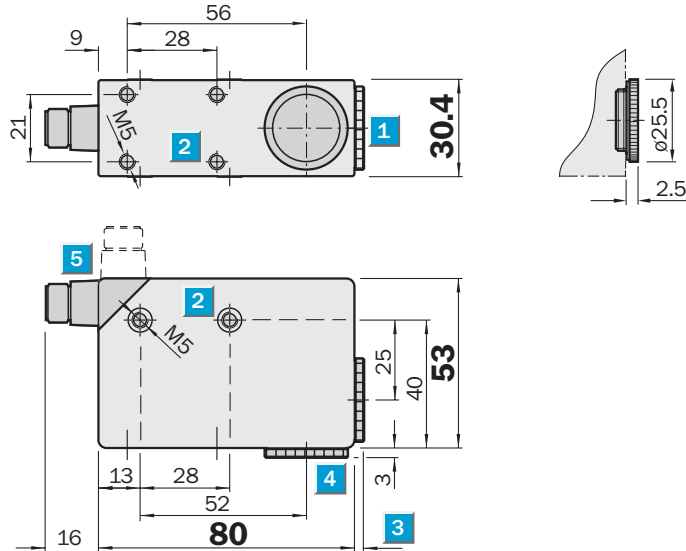


Contrast scanner, KT8 Laser

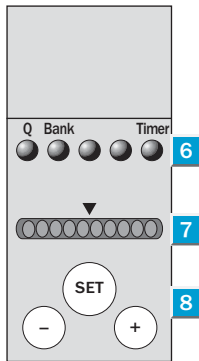

Scanning distance
30 ... 800 mm
Contrast scanner

- Long scanning distance (30 ... 800 mm)
- Precise detection of smallest marks
- Switching frequency 17 kHz for high-speed applications
- Analogue output
- Great depth of field suitable for web fluttering materials

Dimensional drawing



Adjustments possible

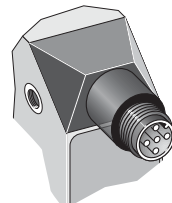


- 1 Lens (light transmission)
- 2 M5 mounting holes, 5.5 mm deep
- 3 See dimensional drawing of the lens
- 4 Blind screw
- 5 5-pin, M12 x 1 plug (rotatable trough 90°)
- 6 Function signal indicator (yellow)
- 7 Bar display
- 8 Teach-in button, "+" and "-" button

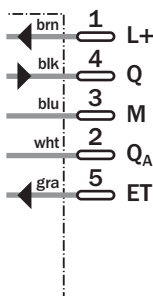


Connection type

- KT8L-N3656
- KT8L-N3756
- KT8L-P3656
- KT8L-P3756



M12, 5-pin



Accessories

Connector, M12, 5-pin

Technical specifications		KT8L-	N3656	N3756	P3656	P3756						
Scanning distance	150 mm ¹⁾											
Operating distance	30 ... 800 mm ¹⁾											
	30 ... 600 mm ¹⁾											
Light source, light type	Laser diode, Laser, red light ²⁾											
Laser class	2 (IEC 60 825-1/C.D.R.H)											
Light spot size	Ø < 0.3 mm at 150 mm											
	Ø 3 mm at 150 mm											
Supply voltage V _s	DC 10 ... 30 V ³⁾											
Ripple	< 5 V ⁴⁾											
Power consumption	< 80 mA ⁵⁾											
Switching outputs	NPN											
	PNP											
Switching mode	Light/dark switching, adjustable via teach-in											
Signal voltage PNP HIGH / LOW	V _s - < 2 V / 0 V											
Signal voltage NPN HIGH / LOW	V _s / < 2 V											
Output current I _a max	< 100 mA											
Response time	< 30 µs ⁶⁾											
Switching frequency	17 kHz ⁷⁾											
Analogue output	0.3 ... 10 mA											
Jitter	< 10 µs											
Teach-in input (ET), PNP	Teach > 10 V ... < V _s Run 0 V or unswitched ⁸⁾											
Teach-in input (ET), NPN	Teach 0 V Run V _s or unswitched ⁸⁾											
Adjustment	2-point Teach-in, static Teach-in dynamic (min/max)											
Time delay	Deactivation delay inactive (default) 20 ms (adjustable)											
Retention time	25 ms non-volatile memory											
Connection type	Connector, M12, 5-pin											
VDE protection class	□ ⁹⁾											
Circuit protection	V _s connections reverse-polarity protected / Outputs Q and QA short-circuit protected / Interference suppression / Outputs overcurrent and short-circuit protected											
Enclosure rating	IP 67											
Ambient temperature operation	-10 °C ... +45 °C											
Ambient temperature storage	-25 °C ... +75 °C											
Shock load	According to IEC 68											
Weight	Ca. 400 g											
Housing material	Zinc die-cast											

¹⁾ From front edge of lens. Relating to
black-white contrast 90 %/6 %
²⁾ Average service life 50,000 h at

T_a = +25 °C
³⁾ Limit values
⁴⁾ May not exceed or fall short of

V_s tolerances
⁵⁾ Without load
⁶⁾ Signal transit time with resistive load

⁷⁾ With light/dark ratio 1:1
⁸⁾ ET > 2 ms
⁹⁾ Reference voltage 50 V DC

Ordering information

Type	Part Number
KT8L-N3656	1 041 263
KT8L-N3756	1 041 352
KT8L-P3656	1 041 262
KT8L-P3756	1 041 351