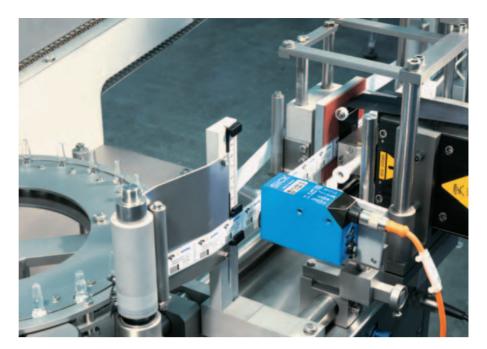
Scanners



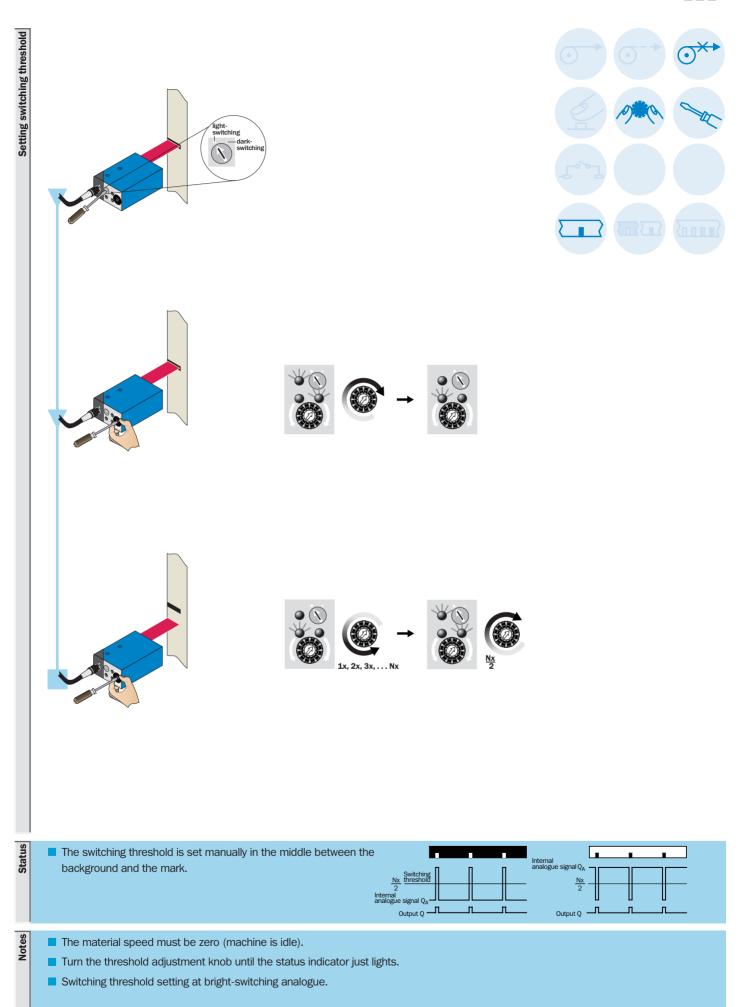
Contrast scanner with manual switching threshold adjustment

Industrial packaging processes are automated for the most part. Sensors are required for this, which can detect print marks on different films, cardboard packaging and wrapping materials quickly and reliably.

The KT 5G-2P/N_ __1 can resolve over 30 different contrast levels. This is the basic model of the KT 5 series. The gray value differentiation, switching sequence of 10 kHz and scanning ranges of optionally 10, 20 and 40 mm cover a wide range of applications in contrast detection. The switching threshold is adjusted manually with support from the status indicator as an adjustment aid. An optional release delay, which increases the impulse duration, optimizes detection reliability.

Easy to install too – through the 4-pin M12 plug connection, the comprehensive range of mounting accessories and the selectable light exit at the top or front of the housing.

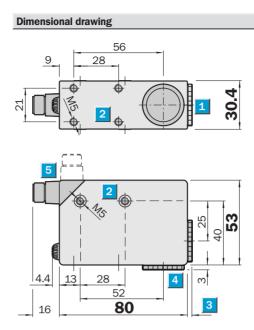
KT 5G-2P/N___1

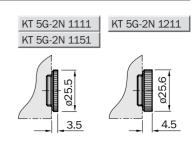


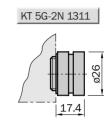
KT 5G-2N_ _ 1 Contrast scanners



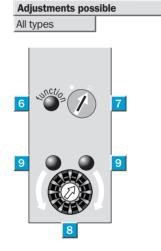
- Green light
- Manual switching threshold adjustment
- Adjustment switch
- Optional time delay
- Switching frequency 10 000/s











1	Lens (light transmission), can be replaced by item $\boxed{4}$
2	M5 mounting holes, 5.5 mm deep
3	See dimensional drawing of lens
4	Blind screw, can be replaced by item 1
5	4-pin, M12 x 1 plug (rotatable through 90°)
6	Function signal indicator (yellow)
7	Operating mode selector switch
0	Light-switching
	Dark-switching
8	Switching threshold adjustment
9	Adjustment indicators (green)

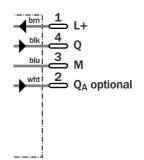
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Accessories		
Cables and connectors		
Mounting systems		
Lens		

Connection type All types



4-pin, M12



Technical data	KT 5G-2	1111 N1151 N1211 N1311			
Scanning distance	10 ± 3 mm				
from front edge of lens	$20 \pm 3 \text{ mm}$				
	$40 \pm 3 \text{ mm}$				
Light spot dimension	1.2 x 4.2 mm				
	1.5 x 5.5 mm				
	1.1 x 4.2 mm				
Light spot position	Longitudinal				
Light source ¹⁾ ; light type;	LED; green light;				
Wavelength (nm)	520				
Supply voltage V _s	10 30 V DC ²⁾				
Residual ripple ³⁾	$< 5 V_{pp}$				
Current consumption ⁴⁾	< 80 mA				
Switching outputs	Light-/dark-switching, selectable				
	NPN: HIGH = V_s /LOW = $< 2 V$				
Output current I, max.	100 mA				
Response time ⁵ ; switching frequency ⁶	50 μs; 10 000/s				
Time delay	No timing element				
Analogue output Q_	0.3 10 mA				
Switching threshold	adjustable (standard type)				
Connection type	Plug 4-pin, M12				
VDE protection class ⁷⁾					
Enclosure rating	IP 67				
Circuit protection ⁸⁾	A, B, C				
Ambient temperature T _A	Operation −10 +55 °C				
	Storage –25 +75 °C				
Shock load	To IEC 68				
Weight	Approx. 400 g				
Housing	Cast zinc				
¹⁾ Average service life 100,000 h at $T_A = +25 \text{ °C}$ ²⁾ Limit values	 ³⁾ May not exceed or fall short of V_s tolerances Without load 	Signal transit time with resistive I With light/dark ratio 1:1	k	/ _s connections re protected	

²⁾ Limit values

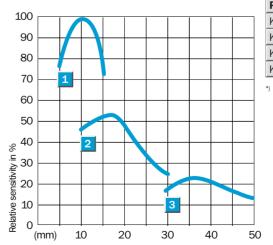
⁴⁾ Without load

⁷⁾ Reference voltage 32 V DC

- B = Outputs short-circuit protected C = Interference pulse suppression

Scanning distance

1	Scanning distance 10 mm		
2	Scanning distance 20 mm		
3	Scanning distance 40 mm		



Order information			
Preferred type *)	Order no.		
KT 5G-2N 1111	1 015 981		
KT 5G-2N 1151	1 016 385		
KT 5G-2N 1211	1 015 985		
KT 5G-2N 1311	1 015 988		

*) Further types on request

8 009 263/25-02-04

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