ontrast Scanners



Contrast scanner with dynamic Teach-in

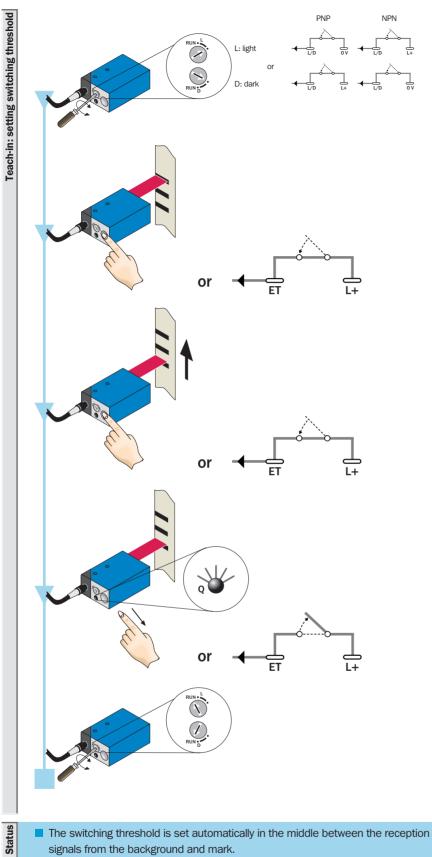
The KT 5G-2P/N___3 provides a high degree of user-friendly operation and detection reliability. This is the result of the dynamic Teach-in procedure in connection with the automatic light transmitter selection.

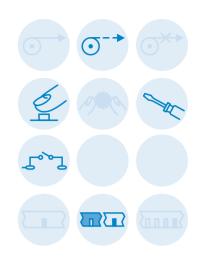
You can set the optimum switching threshold without stopping the machine, either using the push button on the equipment or an external impulse via the control wire. The equipment selects the light source between the red, blue and green transmission LED automatically, which achieves the respectively best contrast and consequently the highest possible detection reliability.

> Especially in applications with a high throughput performance, e.g., packaging machines and fill lines, these features contribute to economical system operation because they are interruption-free. The same applies to highly flexible production processes where it is necessary to adapt contrast scanners fast and inexpensively.

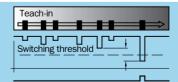
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KT 5W-2P/N 3





signals from the background and mark.



The optimum transmission light was selected automatically.

At least one repetition length must pass through the light spot with the material to be scanned.

The material speed during Teach-in procedures is min. 25 mm/s and max. 300 mm/s.

The Teach-in button can be locked against unintentional activation with "Run". A Teach-in procedure can be triggered when the switch setting is not defined.

Notes

KT 5W-2P/N_ _ _3 Contrast scanners



- Dynamic Teach-in
- Automatic light transmission selector, red, blue and green
- Teach-in: button on unit or via control cable
- L/D adjustable on unit or via control cable
- Switching frequency 10 000/s

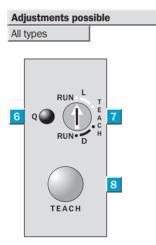


Dimensional drawing KT 5W-2P1113 56 KT 5W-2N1113 28 9 KT 5W-2P1123 ¢ 30. Z ø25.5 3.5 2 53 25 9 28 13 m

3

2

3 4 5



16

52

80

Lens (light transmission), can be replaced by item 4 M5 mounting holes, 5.5 mm deep See dimensional drawing of lens Blind screw, can be replaced by item 1 5-pin, M12 x 1 plug (rotatable through 90°) Function signal indicator (yellow)

KT 5W-2P1213

KT 5W-2N1213

ø25.6

4.5

- Function signal indicator (ye
 L/D pre-selection switch
- 8 Teach-in button

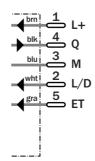
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Accessories	
Cables and connectors	
Mounting systems	
Lens	



Connection type All types

5-pin, M12 x 1



KT 5W-2P/N__3

Technical data	KT 5W-2	P1113 P1123	P1213 N11	13 N1213		
Scanning distance	$10 \pm 3 \text{ mm}$				 	
from front edge of lens	$20 \pm 3 \text{ mm}$				 	
Light spot dimensions	1.2 x 4.2 mm					
	1.5 x 5.5 mm					
Light source ¹⁾ ; light type;	LED; red, blue, green;					
Wavelength (nm)	640, 525, 470					
Supply voltage V _s	10 30 V DC ²⁾					
Residual ripple ³⁾	$< 5 V_{PP}$					
Current consumption ⁴⁾	< 80 mA					
Switching outputs	PNP: HIGH = V_s - < 2 V/LOW = 0 V					
	NPN: HIGH = V_s /LOW = < 2 V					
Output current I _A max.	100 mA short-circuit protected					
Switching frequency	To 10000/s					
Response time ⁵ ; switching frequency ⁶⁾	50 μs; 10 000/s					
Time delay	No timing element					
	Deactivation delay, 20 ms					
Teach-in input ET	PNP: Teach $>$ 10 V $<$ V _S					
	Run 0 V or unswitched					
	NPN: Teach 0 V					
	Run V _s or unswitched					
Retention time	25 ms non-volatile memory					
L/D input, light-/dark-switching	PNP: dark = > 10 V $<$ V _S					
	light = $0 V$ or unswitched					
	NPN: dark = $0 V$					
	light = V_s or unswitched					
Connection type	Plug M12, 5-pin					
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 $T_{A} = +25 \text{ °C}$	³⁾ May not exceed or fall short of V _s tolerances	 ⁵⁾ Signal transit tin ⁶⁾ With light/dark r 		ve load	onnections re	verse-polarity

²⁾ Limit values

⁴⁾ Without load

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

Scanning distance

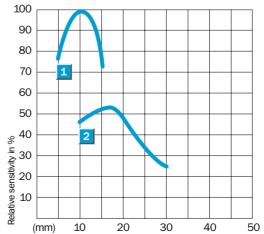
1	Scanning distance with lens 211	10 mm
2	Scanning distance with lens 212	20 mm

With light/ dark ratio 1:1
 Reference voltage 32 V DC

Order information Preferred type *) Order no.

KT 5W-2P1113	1 016 629
KT 5W-2P1123	1 017 810
KT 5W-2P1213	1 016 715
KT 5W-2N1113	1 016 630
KT 5W-2N1213	1 016 716

*) Further types on request



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