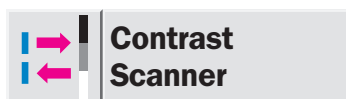
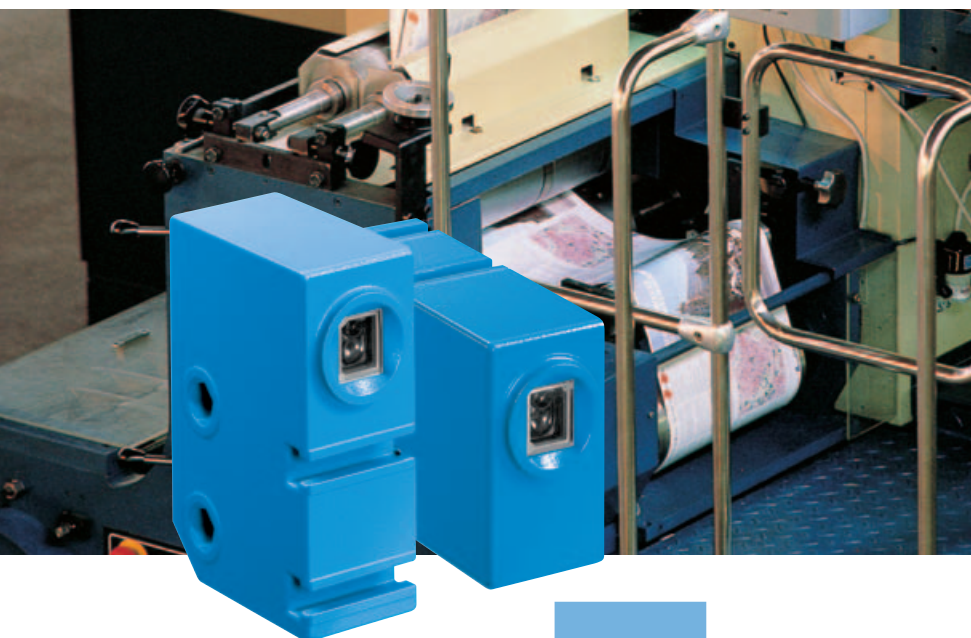


KT6W: Economical device in tried and tested metal housing



The contrast scanner KT6W is the right choice when especially difficult contrasts must be detected. All devices of the KT6W series have a three-color LED. The optimum sender light source is activated automatically for each contrast.

The sturdy metal housing ensures a long operating life and high quality.

The sensor sets the ideal threshold level thanks to the especially precise 2-point teach-in procedure, in which the gray values of the mark and the background are taught in quickly and easily.

The KT6W is available in two housing models. Depending on the application requirements, you can stipulate whether light emission is on the long or short device side.

This sensor is even more flexible thanks to its expanding mounting options: in addition to stable mounting holes, two additional T-slots are available for attaching the KT6W devices.

Technical data		KT6W-	P5116	P6116	N5116	N6116						
Scanning distance	10 ± 2 mm											
from front edge of guard ring												
Light spot dimensions	1.5 x 6.5 mm											
Light source¹⁾, light type	LED; red, green, blue											
Wave length (nm)	640, 525, 470											
Light spot position	Vertical											
Light emission	Edge side											
	Length side											
Supply voltage V_S	10 ... 30 V DC ²⁾											
Residual ripple ³⁾	< 5 V _{PP}											
Current consumption ⁴⁾	< 40 mA											
Switching output	PNP: HIGH = V _S - < 2 V / LOW = 0 V											
	NPN: HIGH = V _S / LOW = < 2 V											
Output current I _A max.	< 100 mA											
Response time ⁵⁾	100 μs											
Switching frequency ⁶⁾	5000/s											
Retention	25 ms non-volatile memory											
Connection type	Plug 4-pin, M12											
VDE protection class ⁷⁾	□											
Enclosure rating	IP 67											
Circuit protection⁸⁾	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 material	Cast zinc											

¹⁾ Average service life 100,000 h at T_A = +25 °C

²⁾ Limit values

³⁾ May not exceeded or fall short of V_S tolerances

⁴⁾ Without load

⁵⁾ Signal transit time with resistive load

⁶⁾ With light/dark ratio 1:1

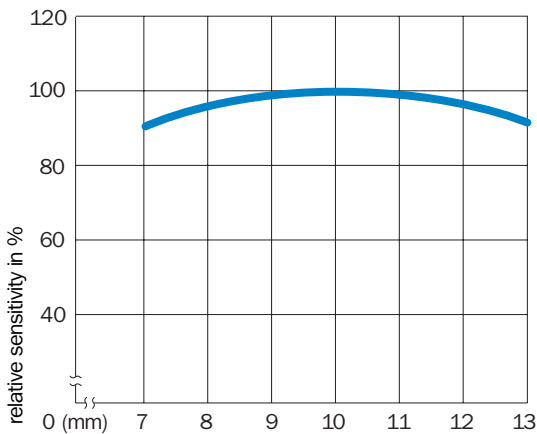
⁷⁾ Reference voltage 32 V DC

⁸⁾ A = V_S connections reverse-polarity protected

B = Output Q short-circuit protected

C = Interference pulse suppression

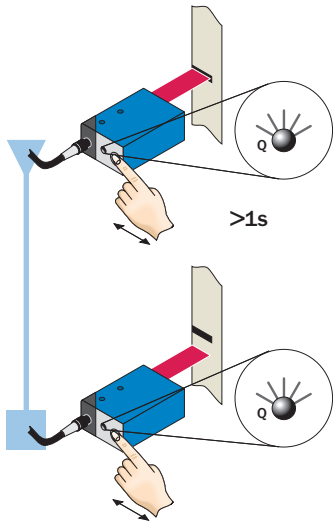
Scanning distance



Order information

Type	Order no.
KT6W-P5116	1027500
KT6W-P6116	1028183
KT6W-N5116	1027499
KT6W-N6116	1028182

Teach-in: setting switching threshold



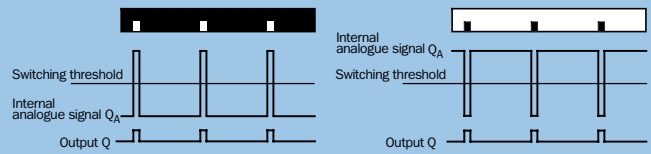
- Place mark in light spot
Press teach button (> 1 s)

- Place mark on background
Press teach button



Status

- After the first teach-in procedure, the red transmitter light blinks and signal that a second teach-in procedure must be triggered.
- The optimum transmission light was selected automatically.
- LED and status indicator blinks regidly = contrast insufficient.



Note

- Light-/dark-switching not required: output active on first teach-in condition.
- The material speed must be zero during teach-in (machine is idle).

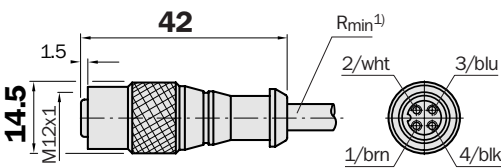
Accessories

SENSICK screw-in system M12, 4-pin, Enclosure rating IP 67

Female connector M12, 4-pin, straight

Cable diameter 5 mm, 4 x 0.25 mm², sheath PVC

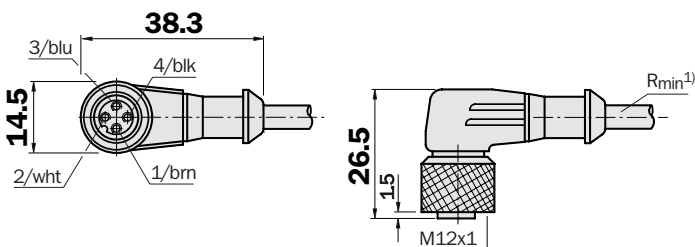
Type	Order no.	Contacts	Cable length
DOL-1204-G02M	6009382	4	2 m
DOL-1204-G05M	6009866	4	5 m
DOL-1204-G10M	6010543	4	10 m
DOL-1204-G15M	6010753	4	15 m



Female connector M12, 4-pin, right angle

Cable diameter 5 mm, 4 x 0.25 mm², sheath PVC

Type	Order no.	Contacts	Cable length
DOL-1204-W02M	6009383	4	2 m
DOL-1204-W05M	6009867	4	5 m
DOL-1204-W10M	6010541	4	10 m



¹⁾ Minimum bend radius in dynamic use
R_{min} = 20 x cable diameter

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