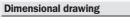
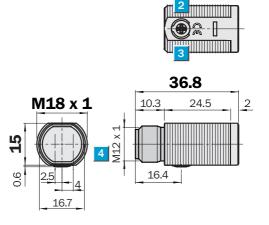
KT 1M Contrast scanner

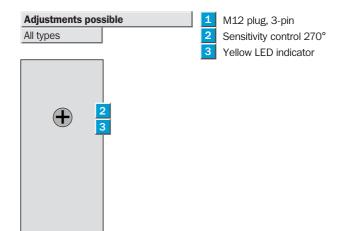
Scanning distance 23.5 mm

- Light source white: for a wide range of application
- Easy mounting thanks to accessories
- LED indicator: Switching output active and operation reserve
- Light or dark switching









CE

See chapter accessories
Cables and connectors
Mounting systems

Connection type			
KT1M-P1			
KT1M-P2			
KT1M-N1			
KT1M-N2			
~			



3-pin, M12 ↓ bili 3 M ↓ bilk 4 0

1130 SENSICK CATALOGUE

KT 1M

Technical data	KT1N	M- P1	. P2	N1	N2					
		_								
Scanning distance	23.5 mm									
Scanning distance tolerance	± 1.5 mm									
Light spot diameter	Approx. core 2 mm (5 mm)									
Light source ¹⁾ ; Light type;	LED; white;									
wavelenght (nm)	450 650									
Threshold setting	Potentiometer 270°, manually									
Light reception indicator	Yellow LED									
Supply voltage V _s	10 30 V DC ²⁾									
Residual ripple 3)	$\leq 5 V_{pp}$									
Current consumption 4)	≤ 20 mA									
Switching outputs	PNP: HIGH = $V_s - 2.9 \text{ V/LOW} = 0 \text{ V}$									
	NPN: HIGH = V_s /LOW = 2.9 V									
Switching mode	Light-switching									
	Dark-switching									
Output current I _A max.	≤ 100 mA									
Response time ⁵⁾	1.25 ms									
Switching frequency 6)	400/s									
Connecting type	Plug M12, 3-pin									
VDE protection class 7)										
Enclosure rating	IP 67									
Circuit protection ⁸⁾	A, B, C									
Ambient temperature T _A	Operation -10 °C +55 °C									
	Storage –25 °C +70 °C									
Weight	Approx. 7 g									
Housing material	Housing: ABS									
	Optic: PMMA									
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 ⁴⁾ Without load 	⁶⁾ V	With light/d	nsit time wit (dark ratio 1 e voltage 50	1:1	e load	B =	= V _s connec protected = Interference = Outputs ov circuit prot	ce pulse si vercurrent	uppression

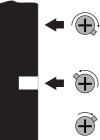
Teach-in, dark operation (D.ON)		Teach-in, light operat	Teach-in, light operation (L.ON)					
Truth table			Truth table					
Light remission	Output	LED indicator	Light remission	Output	LED indicator			
Yes (background)	inactive	on or blinks	Yes (mark)	active	on or blinks			

Threshold setting

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- Position sensor on mark. Start at 0° (light source off) and turn until LED flashes or until 270°.
- 2. Position sensor on background. Turn back until LED off.
- 3. Turn between point 1 and 2.

Threshold setting



- Position sensor on background.
 Start at 0° (light source off) and turn until LED flashes or until 270°.
- 2. Position sensor on mark. Turn back until LED off.
- 3. Turn between point 1 and 2.

Order information				
Туре	Order no.			
KT1M-P1	1 027 306			
KT1M-P2	1 027 307			
KT1M-N1	1 027 304			
KT1M-N2	1 027 305			