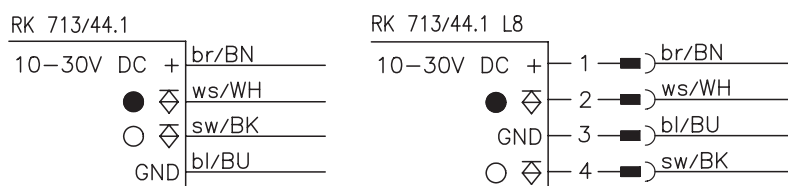


Diffuse reflection light scanner with lustre function

- Mounting system (BT 713)
- Wobble plate (SET BT 713-66 + BT 66)
- M8 connectors (KD ...)
- Ready-made cables (KB ...)
- Reflectors
- Reflective tapes

- A** Optical axis
B Indicator diode
C Sensitivity adjustment





Specifications

Optical data

Typ. scanning range limit (for stainless steel) ¹⁾	50 ... 150mm
Scanning range ²⁾	80 ... 120mm
Light spot diameter	approx. 2mm at a distance of 90mm
Light source	LED (modulated light)
Wavelength	660nm (visible red light)

Timing

Switching frequency	2.5kHz
Response time	0.2ms
Delay before start-up	≤ 100ms

Electrical data

Operating voltage U_B	10 ... 30VDC (incl. residual ripple)
Residual ripple	≤ 15% of U_B
Bias current	≤ 30mA
Switching output	2 PNP transistor outputs, complementary
Function characteristics	light/dark switching
Signal voltage high/low	≥ ($U_B - 2V$) / ≤ 2V
Output current	max. 200mA
Sensitivity	adjustable with 270° potentiometer

Indicators

LED yellow	light path free
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Mechanical data

Housing	metal
Optics	glass
Weight	100g
Connection type	M8 connector (4-pin) cable 2000mm, 4x0.14mm ²

Environmental data

Ambient temp. (operation/storage)	-20°C ... +60°C / -40°C ... +70°C
Protective circuit ³⁾	1, 2, 3, 4
VDE safety class	III
Protection class	IP 67
LED class	1 (acc. to EN 60825-1)
Standards applied	IEC 60947-5-2

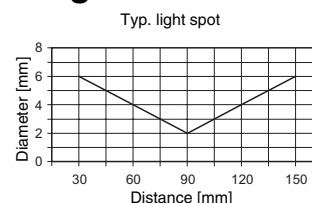
1) Typ. scanning range limit: max. attainable range without performance reserve

2) Scanning range: recommended range with performance reserve

3) 1=transient protection, 2=polarity reversal protection, 3=short circuit protection for all outputs, 4=interference blanking

Tables

Diagrams



Order guide

Selection table		Order code →						
Equipment ↓		RK 713/44.1 Part No. 500 22813	RK 713/44.1 L8 Part No. 500 80319					
Light spot	divergent							
	focussed	●	●					
LED	on top	●	●					
	at the back							
Connection	cable	●						
	M8 connector		●					
Features	shiny reflection	●	●					
	polarisation							
	sensitivity adjustment	●	●					

Remarks

- Light spot focussed at 90mm. Shiny surfaces (e.g. polished metal) can be used as reflective surface at distances of approx. 80mm to approx. 120mm.