Characteristics

Rated operating distance 0.4 mm, allows flush mounting Double DC three-pole, push-pull output (plus- and minus-switching) High geometrical resolution capacity (module ≥ 0.7) Detection of approaching or passing soft iron edges





Technical Data		
(Unless otherwise specified $U_B = 24 V$,	$T_{U} \approx 23 \text{ °C}$, and $I_{L} = 0$)	
Rated operating distance s _n for rack rail as specified in the mounting instructions	0.4 mm	
Rated operating distance s _n for very little tooth depths	0.2 mm	
Duty cycle v _T	0.5 (1 ± 25 %)	
Phase shift φ	90° (± 45°)	
Operating voltage U _B	10 <u>24</u> 30 VDC	
Permissible ripple voltage	10 %	
Current consumption without load	≤ 25 mA	
Maximum current output	≤ 25 mA	
Voltage drop $(I_L = 0)$	≤ 1.5 V	
Voltage drop (I _L = 25 mA)	≤ 10 V	
Output	push-pull, short-circuit protection \leq 20 s	
Operating frequency f	0 10 kHz	
Ambient temperature range T_U	- 25 + 75 °C	
Reverse voltage protection	yes	
Connection	lead connection, LiYY 3 x 0.34 mm ²	
Maximum lead length for 10 kHz	15 m	
Weight	90 g + weight of the lead	
Design	50 x 25 x 12 mm	
Housing material / sensing face	aluminium / brass	
Protection rating according to EN 60529	IP 67	

Mounting Instructions



Moving sense of the rack rail

Pulse diagram

Rated operating distance 0.4 mm with rack rail and moving sense as specified in the mounting instructions.



Duty cycle v_T and phase shift ϕ of the output signals depend directly on:

- the direction of motion of the rack rail
- the switching distance
- the ratio tooth gap
- the material of the rack rail

Deviation from the rack rail specification can change the technical data.



Certification

Complies with the standard EN 60947-5-2



non-magnetic materials.

Safety regulations

Connection, commissioning and maintenance may only be accomplished by specialists or instructed staff.

We are certified according to DIN EN ISO 9001 Subject to technical changes!

KLASCHKA

Wiring per sensor



KB 12.12

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