

Type RI 36-H

Incremental Encoder with hollow shaft



- miniature industry encoder for high number of pulses
- short mounting length
- easy mounting procedure
- Application e.g.:
 - Motors
 - Machine tools
 - Packaging Machines
 - Robots
 - Automated SMD equipment

Number of pulses

5 / 10 / 20 / 25 / 50 / 60 / 100 / 200 / 250 / 300 / 360 / 500 / 600 / 720 / 1000 / 1024 / 1250 / 1500 / 2000 / 2048 / 2500 / 3000 / 3600
Other number of pulses available on request

Technical data

mechanical

Mounting	Clamping shaft (one side open) with front clamping ring
Coupling	spring plate
Shaft diameter	4, 6, 8, 10 mm hollow shaft
Angular shaft	
misalignment max.	$\pm 0,15$ mm radial, $\pm 0,5$ mm axial
Absolute max. speed	max. 10,000 min ⁻¹
Torque	≤ 1 Ncm
Moment of inertia	ca. 3 gcm ²
Protection class (EN 60529)	Housing IP 64, bearings IP 64
Operating temperature	-10 ... +70 °C
Storage temperature	-25 ... +85 °C
Vibration performance	100 m/s ² (10 ... 2000 Hz)
Shock resistance	1000 m/s ² (6 ms)
Type of connection	1,5 m cable* axial or radial
Housing	aluminium
Wight	ca. 80 g

* other cable length on request

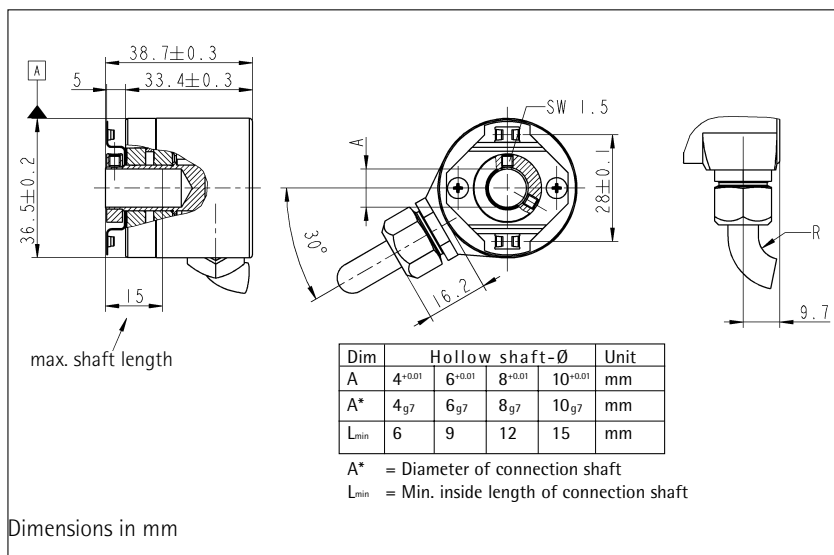
Technical data

electrical

General design	as per DIN EN61010-1, protection class III, contamination level 2, overvoltage class II	
Supply voltage (SELV)	with RS 422 (R, T):	5 VDC $\pm$ 10 %
	with push-pull (K, I):	10 ... 30 VDC ¹⁾
Power consumption	40 mA (5 VDC), 60 mA (10 VDC), 30 mA (24 VDC)	
Standard-	RS 422 (R):	A, B, N, $\overline{A}$, $\overline{B}$, $\overline{N}$, Alarm
Output version ²⁾	RS 422 (T):	A, B, N, $\overline{A}$, $\overline{B}$, $\overline{N}$, Sense
	push-pull (K):	A, B, N, Alarm
	push-pull complementary (I):	A, B, N, $\overline{A}$, $\overline{B}$, $\overline{N}$, Alarm
1) pole protection		
2) Output description and technical data see section "output"		

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Dimensioned drawing



The spring plate as torque support must be fixed by a cylindrical (2,4 mm Ø) at the machine side

Ordering data

H Hollow shaft	Supply voltage A 5 VDC E 10 ... 30 VDC (push-pull only)	Mounting F clamping shaft	Shaft diameter 0 4 mm 1 6 mm C 8 mm 2 10 mm
R I 3 6 - H /		F · 3	
Number of pulses 5 ... 3600	Protection class 3 IP 64	Output T RS 422 + Sense K push-pull short circuit proof R RS 422 + Alarm I push-pull complementary	Type of connection A Cable axial B Cable radial

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