HENGSTLER

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.	± 0,15 mm radial, ± 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

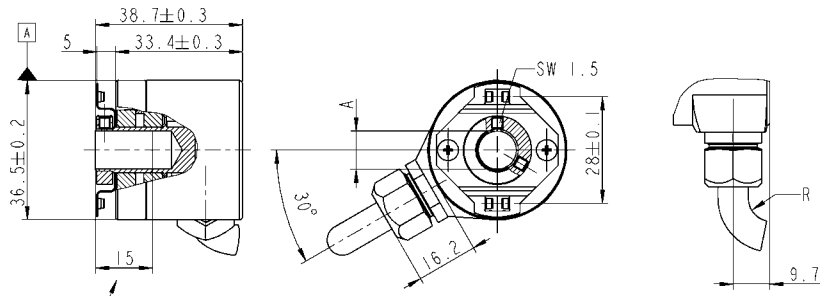
Technical data
electrical

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 ± 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-Output version[2)]	RS 422 (R):	A, B, N, $\overline{A}$, $\overline{B}$, $\overline{N}$, $\overline{Alarm}$
	RS 422 (T):	A, B, N, $\overline{A}$, $\overline{B}$, $\overline{N}$, Sense
	push-pull (K):	A, B, N, $\overline{Alarm}$
	push-pull complementary (I):	A, B, N, $\overline{A}$, $\overline{B}$, $\overline{N}$, $\overline{Alarm}$

1) pole protection
2) Output description and technical data see section "output"

Type RI 36-H

Dimensioned drawing



Dim	Hollow shaft-Ø				Unit
A	$4^{+0.01}$	$6^{+0.01}$	$8^{+0.01}$	$10^{+0.01}$	mm
A*	4_{g7}	6_{g7}	8_{g7}	10_{g7}	mm
L_{min}	6	9	12	15	mm

A* = Diameter of connection shaft
L_{min} = Min. inside length of connection shaft

Dimensions in mm

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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DOC 1238.00 E