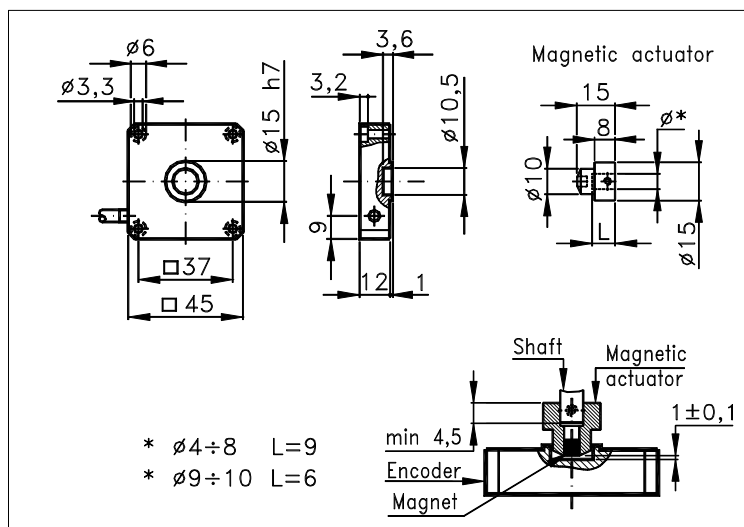


**MAGNETIC  
ABSOLUTE  
ENCODER  
M345NC**

Miniature absolute singleturn magnetic encoder without contact between the rotating shaft and the body of the transducer. Characterized by a high rotation speed (30000 rpm). Fit for industrial applications like marine, medical, printing, metal working, industrial automation and instrumentation.

Famiglia: **M**  
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data sheet IR028 E00

Measures without tolerance according to UNI ISO 2768-mk



## TECHNICAL FEATURES AND POSSIBLE CONFIGURATIONS

- Output codes.....: Binary
- Max pulses/rev.....: 8192 (13 bits)
- Power supply Vcc.....:  $5 \pm 5\%$ ,  $5 \div 30$ ,  $10 \div 30$
- Max consumption.....: 35 mA
- Max frequency.....: 500 kHz
- Operating temperature.:  $-25 \div +85$  °C
- Storage temperature...:  $-25 \div +125$  °C

- Up/down commutation...: No
- Mechanical zero search: No
- Output stages.....:

- Pre output interface...: (S) Serial SSI.

- Connections Radial R : CV

For the description of connections see 'ORDERING CODE' on page 2.

- Base.....: Alluminium
- (\*) - Cover.....: Alluminium
- Weight.....: 150 g
- Shaft.....: Hollow (with magnet) (\*)
- Max.rad/axial load....: -
- IP output side.....: see 'CONNECTIONS' on page 2
- IP shaft side.....: std.67 sealed - low torq.-
- Contin. max RPM...(\*\*): 30000 - -
- Starting torque.. gcm.: -
- Impact resistance.....: 100 G (6 ms)
- Vibration resistance...: 12 G ( $10 \div 2000$  Hz)
- (S) - Ball bearings life....:  $1,5 \times 10^9$  revolutions  
(@ 1000 rev/m with load of 1/4 maximum allowed)

(\*) Custom options

(\*\*) Intermittent max RPM + 30% of continuous max RPM

## POSSIBLE OPTIONS

| CODE | DESCRIPTION | CODE | DESCRIPTION    | CODE | DESCRIPTION |
|------|-------------|------|----------------|------|-------------|
|      |             | X    | Custom options |      |             |



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