

- High speed rotary encoder
- Bearingless, non contact design
- IP67 or IP68 protection with sealed circuits
- Incremental version



MIK36

### ENVIRONMENTAL SPECIFICATIONS

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Shock:                       | 250 g, 6 ms acc. to CEI EN 60068-2-27                        |
| Vibrations:                  | 10 g, 5-2000 Hz acc. to CEI EN 60068-2-6                     |
| Protection:                  | IP67                                                         |
| Operating temperature range: | -20°C +85°C (-4°F +185°F)                                    |
| Storage temperature range:   | -20°C +85°C (-4°F +185°F)<br>(98% R.H. without condensation) |
| Option:                      | • IP68 protection with sealed circuits                       |

### MECHANICAL SPECIFICATIONS

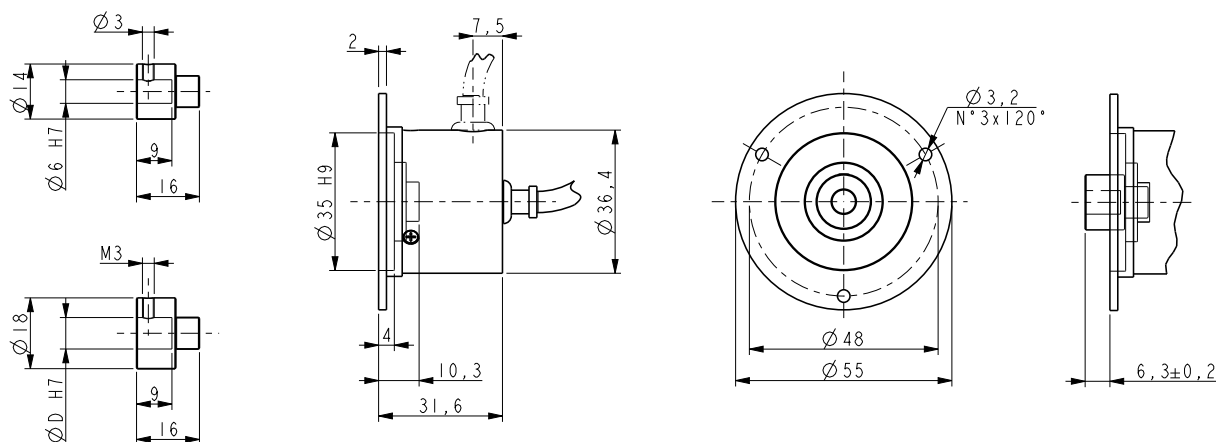
|                         |                                                    |
|-------------------------|----------------------------------------------------|
| Dimensions:             | see drawing                                        |
| Shaft diameter:         | Ø 6, 8, 10 mm                                      |
| Shaft rotational speed: | 30000 rpm max.                                     |
| Axial runout:           | ±0,1mm (for best electrical performance)           |
| Radial runout:          | ±0,2mm (for best electrical performance)           |
| Electrical connections: | M12 8 pin inline plug or cable output 1 m (3.3 ft) |
| Weight:                 | ~ 50 g (1,7 oz)                                    |
| Option:                 | • additional cable                                 |

### ELECTRICAL SPECIFICATIONS

|                                |                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------|
| Resolution (PPR):              | 4-8-10-16-20-25-32-40-50-64-80-100<br>125-128-200-250-256-400-500-512-1024-2048 |
| Accuracy:                      | ± 0,9°                                                                          |
| Counting frequency:            | 300 kHz max.                                                                    |
| Output circuits:               | NPN, Push-Pull, Line Driver                                                     |
| Power supply:                  | 5Vdc ±5%, +10Vdc +30Vdc                                                         |
| Consumption:                   | 50 mA max.                                                                      |
| Output current (each channel): | 40 mA max.                                                                      |
| Protection:                    | against inversion of polarity and short-circuit<br>(except L circuit)           |
| EMC:                           | electro-magnetic immunity, according to: EN-61000-4-2<br>EN-61000-4-4           |

### MATERIALS

|          |                             |
|----------|-----------------------------|
| Flange:  | anticorodal, UNI EN AW-6082 |
| Housing: | anticorodal, UNI EN AW-6082 |
| Shaft:   | anticorodal, UNI EN AW-6082 |



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| MIK36 Resolution | Rpm max. |
|------------------|----------|
| > 128            | 30000    |
| > 256            | 20000    |
| > 512            | 10000    |
| 1024             | 5100     |
| 2048             | 2550     |

## Order code - Incremental encoder

|       |   |           |   |              |   |            |   |           |   |          |          |   |          |             |              |
|-------|---|-----------|---|--------------|---|------------|---|-----------|---|----------|----------|---|----------|-------------|--------------|
| MIK36 | - | XX<br>(a) | - | XXXXX<br>(b) | - | XXX<br>(c) | - | XX<br>(d) | - | X<br>(e) | X<br>(f) | - | X<br>(g) | XXXX<br>(h) | /Sxxx<br>(i) |
|-------|---|-----------|---|--------------|---|------------|---|-----------|---|----------|----------|---|----------|-------------|--------------|

## (a) OUTPUT CIRCUITS / POWER SUPPLY

N2 = NPN, +10V ÷ +30V  
Y2 = Push Pull, +10V ÷ +30V  
L1 = Line Driver (RS422), +5V ± 5%

## (b) RESOLUTION (PPR)

See electrical specifications

## (c) OUTPUT SIGNALS

ZNF = ABO  
ZCU = ABO, /ABO

## (d) SHAFT DIAMETER

06 = 6 mm  
08 = 8 mm  
10 = 10 mm

## (e) PROTECTION

J = IP67  
M = IP68 with sealed circuits

## (f) OPERATING TEMP. RANGE

T = -25°C +85°C (-13°F +185°F)

## (g) CONNECTION POSITION

A = axial  
R = radial

## (h) CONNECTIONS

L010 = cable output 1 m (standard)  
L020 = cable output 2 m  
Lxx0 = cable out. x m (max. length 10m)  
M005 = 0,5 m cable + M12 8 pin inline plug  
M020 = 2 m cable + M12 8 pin inline plug

## (i) CUSTOM VERSION

| Document release | Date      | Description    |
|------------------|-----------|----------------|
| 1.0              | 7.08.2025 | New order code |