



## IQ58S-H-PROG-ZCW-4-10-R-L2

Universal encoder HTL / TTL with Ø10mm shaft  
A,B,Z +invers, 2m radiel cable



- Programmable incremental encoder
- Resolution from 1 to 16384 PPR
- Selectable Index length 90 or 180° el.
- Counting direction cw, ccw
- Push-Pull + Line Driver compatible output
- Programmable via USB



### ENVIRONMENTAL SPECIFICATIONS

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Shock:                       | 100 g, 6 ms                                                    |
| Vibrations:                  | 10 g, 5-2000 Hz                                                |
| Protection:                  | IP65                                                           |
| Operating temperature range: | -40°C +85°C (-40°F +185°F)                                     |
| Storage temperature range:   | -40°C +100°C (-40°F +212°F)<br>(98% R.H. without condensation) |

### MECHANICAL SPECIFICATIONS

|                 |             |
|-----------------|-------------|
| Dimensions:     | see drawing |
| Shaft diameter: | Ø10 mm      |

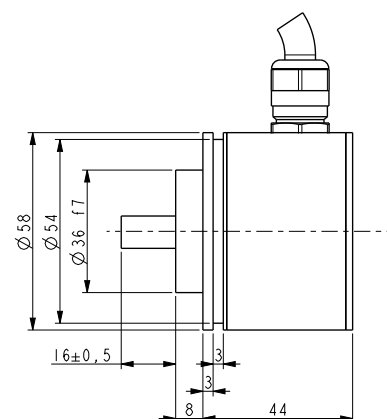
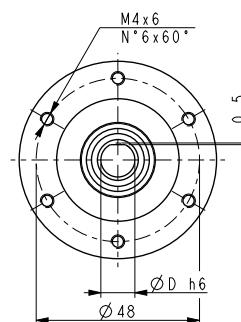
|                                |                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------|
| Shaft loading (axial, radial): | 100 N max.                                                                                  |
| Shaft rotational speed:        | typ. 6000 rpm / 12000 temporary                                                             |
| Starting torque at 20°C:       | 0,4 Ncm (typical)                                                                           |
| Bearings life:                 | 400 x 10 <sup>6</sup> rev. min.<br>(10 <sup>9</sup> rev. min. with 20 N shaft loading max.) |
| Electrical connections:        | cable output 2m                                                                             |
| Weight:                        | ~ 200 g (7 oz)                                                                              |
| Option:                        | • additional cable                                                                          |

### ELECTRICAL SPECIFICATIONS

|                                |                                                         |
|--------------------------------|---------------------------------------------------------|
| Resolution (PPR):              | programmable from 1 to 16384                            |
| Accuracy:                      | ± 0,15°                                                 |
| Counting frequency:            | 500 kHz max.                                            |
| Output circuits:               | Universal output (PP+LD compatible)                     |
| Power supply:                  | +5V +30V                                                |
| Consumption:                   | 60 mA (typical)                                         |
| Output current (each channel): | 40 mA max.                                              |
| Protection:                    | against inversion of polarity and short cut             |
| EMC:                           | electro-magnetic immunity, EN 61000-4-2<br>EN 61000-4-4 |

### MATERIALS

|           |                                             |
|-----------|---------------------------------------------|
| Flange:   | anticorodal, UNI EN AW-6082                 |
| Housing:  | anticorodal, UNI EN AW-6082                 |
| Bearings: | ABEC 5                                      |
| Shaft:    | stainless steel, non-magnetic - UNI EN 4305 |



### ACCESSORIES

|          |                 |
|----------|-----------------|
| IP/IQ58: | USB programming |
|----------|-----------------|

Specifications subject to changes without prior notice