## hohner <br> Elektrotechnik Werne

## Series 72

- Electronic multiturn rotary-encoder with a solid shaft diameter of 12 mm
- Housing diameter 102 mm , extem robust design and high degree of protection
- Resolution up to max. 3.600 divisions
- For highest industrial requirements
- Low torque
- 18-bit wider C'Mos counter
- Integrated accumulator
- Additional filter circuits
- Accessories from page 78


## Electrical specifications

Max. step frequency:

Perm. temperature range:
Power supply:
Max. current consumption:
Power failure safety:

25 kHz
$-30^{\circ} \ldots+70^{\circ} \mathrm{C}$
10 V ... 30 V DC
120 mA
max. 48 hrs.

## Mechanical specifications

| Housing: | Zinc die-casting |
| :--- | :--- |
| Flange: | Zinc die-casting |
| Shaft: | stainless steel 12 mm |
| Bearing: | Deep groove ball bearing |
| Weight: | approx $1,2 \mathrm{~kg}$ |
| Protection type: | IP 54 according to DIN 40050 |
| Max. speed: | $6.000 \mathrm{U} / \mathrm{min}$ |
| Moment of inertia: | $270 \mathrm{gcm}^{2}$ |
| Torque: | 3 Ncm |
| Max. shaft load: | axial 10 N <br>  |
|  | radial 10 N |

## Mechanical dimensions



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Output signals
Binär-Code


BCD-Code


Order reference


Special versions (on request)

- External buffering
- Without buffering
- Cable output
- Flange-triggered reset pulse

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## Functional description of the control inputs

| Pin | Desc. | Explanation |
| :--- | :--- | :--- |
| $25^{*}$ | Reset <br> Acknowledgement <br> Alarm | A signal ( + Ub) resets the internal counter. <br> The alarm output is acknowledged at the same time. |
| $24^{*}$ | Code <br> Selection of output code | A signal (+ Ub) switches the code type from binary to BCD code |
| $23^{*}$ | Change of counting <br> direction | A signal (+ Ub) changes the counting direction. <br> Looking at the shaft: Sequence of numbers increasing for an <br> anticlockwise shaft) |
| 22 | Alarm/Relay output <br> Unilateral mass of <br> switching | When the internal battery no longer has sufficient voltage and <br> counting errors could arise, this is indicated by resetting the <br> output. Furthermore, the internal power supply is monitored <br> during operation. |

* All control inputs are switched via octocoupler


## Functional description of alarm output: (after applying the operating voltage)

The counter is reset and the alarm output is acknowledged by resetting.
The alarm output is only set when the battery voltage has exceeded a certain value during
actuation of the reset.
This depends on the battery discharge and can take a few minutes.
If the reset is controlled with a static signal of +Ub , the release of the count is signalled by
setting the alarm output.

Options: $\quad$| Option1/Pin 21: Acknowledgement input for alarm signal independent of reset |
| :--- |
| Option2/Pin 21.22: Potential-free relay contact for alarm signal |

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[^0]:    All specification in millimeters

