

- Low price at high performance
- IP 64
- Wide temperature range (-20 ... +85 °C)
- Housing is resistant against environmental influences due to chromium plated surface
- Sturdy cable output with multiple clamping
- Temperature compensation
- Broad input voltage range (5 ... 24 V or 8 ... 30 V)
- Highly flexible cable with stands constant flexing at 0 °C ... 70 °C
- Low power consumption despite high scanning rate
- Reverse connection protected and short-circuit proof



## Mechanical characteristics:

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| Speed:                                    | max. 12000 min <sup>-1</sup>                  |
| Rotor moment of inertia:                  | appr. 0,1 x 10 <sup>-6</sup> kgm <sup>2</sup> |
| Starting torque:                          | < 0,001 Nm                                    |
| Weight:                                   | appr. 0,06 kg                                 |
| Protection acc. to EN 60 529:             | IP 64                                         |
| Working temperature:                      | -20 °C ... +85 °C                             |
| Shaft:                                    | stainless steel                               |
| Shock resistance acc. to DIN-IEC 68-2-27: | 1000 m/s <sup>2</sup> , 6 ms                  |
| Vibration resistance acc. to IEC 68-2-6:  | 100 m/s <sup>2</sup> , 55 ... 2000 Hz         |

## Pulse rates available at short notice:

10, 25, 36, 50, 60, 100, 125, 180, 200, 250, 360, 500, 512, 1000, 1024

Other pulse rates on request

## Electrical characteristics:

|                                                                                 |                              |                            |
|---------------------------------------------------------------------------------|------------------------------|----------------------------|
| Output circuit:                                                                 | Push-pull                    | Push-pull                  |
| Supply voltage:                                                                 | 5 ... 24 V DC                | 8 ... 30 V DC              |
| Power consumption (no load):                                                    | max. 50 mA                   | max. 50 mA                 |
| Permissible load/channel:                                                       | max. 50 mA                   | max. 50 mA                 |
| Pulse frequency:                                                                | max. 160 kHz                 | max. 160 kHz               |
| Signal level high:                                                              | min. U <sub>B</sub> = -2,5 V | min. U <sub>B</sub> = -3 V |
| Signal level low:                                                               | max. 0,5 V                   | max. 2,5 V                 |
| Rise time t <sub>r</sub> :                                                      | max. 1 µs                    | max. 1 µs                  |
| Fall time t <sub>f</sub> :                                                      | max. 1 µs                    | max. 1 µs                  |
| Short circuit proof outputs:                                                    | yes                          | yes                        |
| Conforms to CE requirements acc. to EN 50082-2, EN 50081-2 and EN 55011 Class B |                              |                            |

## Applications:

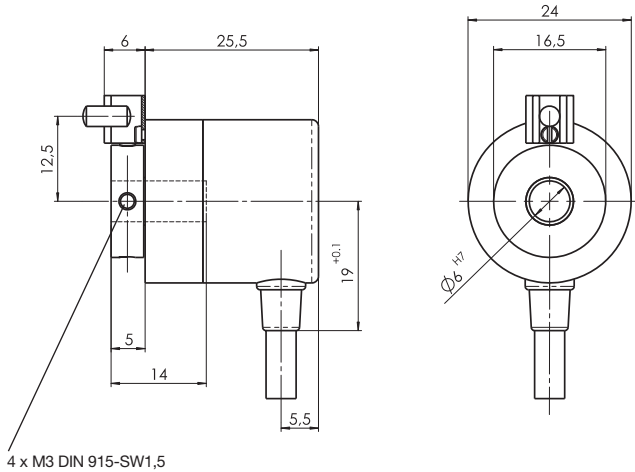
- Pick and place machines
- Handling machines for electronic components
- Quality testing machines
- Medical machines
- Mail opening and mail stuffing machines
- Check weighers
- Labeling machines
- Mole machines (camera control)

Terminal assignment

|                          |    |                 |    |           |    |           |    |           |  |
|--------------------------|----|-----------------|----|-----------|----|-----------|----|-----------|--|
| Signal:                  | 0V | +U <sub>B</sub> | A  | $\bar{A}$ | B  | $\bar{B}$ | 0  | $\bar{0}$ |  |
| Colour:                  | WH | BN              | GN | YE        | GY | PK        | BU | RD        |  |
| without inverted signal: | WH | BN              | GN |           | YE |           | GY |           |  |

Insulate unused outputs before initial startup.

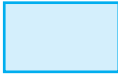
Dimensions



Mounting advice:

Do not connect encoder and drive rigidly to one another at shafts and flanges! Always use couplings to prevent shaft overload (see chapter accessories).

ORDERING CODE



BINB24



Flange  
1 = Ø 24 mm



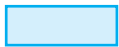
Shaft Ø  
1 = Ø 4 mm Blind shaft  
2 = Ø 6 mm Blind shaft



Output and voltage supply  
A1 = Push-pull (with inverted signals)  
5 ... 24 V DC supply voltage  
A5 = Push-pull (with inverted signals)  
8 ... 30 V supply voltage



Connection  
3A = Cable axial (2 m PVC-cable)  
3R = Cable radial (2 m PVC-cable)



Resolution  
1024 max.