

## EN38 – Incremental encoders Ø 38 mm

- High-precision, small-sized incremental rotary encoders based on optical principle.
- Output by sealed cable in radial or axial position.
- High degree of robustness. Flange, body and housing made of aluminium.
- Excellent rotational precision and signal stability.
- Protected against inversion of power-supply polarity and short circuit on output ports.

### EN38 ON

#### Standard fixing

|                        |   |
|------------------------|---|
| Available pulses       | 5 ÷ 3600 ppr                            |
| Max. rotating speed    | moment. 8000 rpm permanent 6000 rpm     |
| Centering Ø            | 33 mm                                   |
| Fixing                 | no. 4 screws M3 at 90°                  |
| Shaft Ø mm             | 6 - 8                                   |
| Power supply           | 5 V ± 5% or 5 ÷ 28 V ± 5%               |
| Protection class       | IP 65 or IP 67 (optional)               |
| Output                 | LINE DRIVER / PUSH-PULL                 |
| Max. frequency         | 120 kHz                                 |
| Electrical protections | inversion of polarity and short circuit |



### EN38 MN

#### Double fixing system

|                        |  |
|------------------------|--|
| Available pulses       | 5 ÷ 3600 ppr                                   |
| Max. rotating speed    | moment. 8000 rpm permanent 6000 rpm            |
| Centering Ø            | 20 mm  |
| Fixing                 | no. 3 screws M3 at 120° no. 4 screws M3 at 90° |
| Shaft Ø mm             | 6 - 8  |
| Power supply           | 5 V ± 5% or 5 ÷ 28 V ± 5%                      |
| Protection class       | IP 65 or IP 67 (optional)                      |
| Output                 | LINE DRIVER / PUSH-PULL                        |
| Max. frequency         | 120 kHz  |
| Electrical protections | inversion of polarity and short circuit        |



### EN38 FN

#### Fixing by threaded nut

|                        |   |
|------------------------|---|
| Available pulses       | 5 ÷ 3600 ppr                            |
| Max. rotating speed    | moment. 8000 rpm permanent 6000 rpm     |
| Fixing                 | by threaded nut M18x1                   |
| Shaft Ø mm             | 6 - 8                                   |
| Power supply           | 5 V ± 5% or 5 ÷ 28 V ± 5%               |
| Protection class       | IP 65 or IP 67 (optional)               |
| Output                 | LINE DRIVER / PUSH-PULL                 |
| Max. frequency         | 120 kHz                                 |
| Electrical protections | inversion of polarity and short circuit |



### EN38 BB

#### With square flange

|                        |   |
|------------------------|---|
| Available pulses       | 5 ÷ 3600 ppr                            |
| Max. rotating speed    | moment. 8000 rpm permanent 6000 rpm     |
| Centering Ø            | 20 mm                                   |
| Fixing                 | no. 4 holes Ø 3.2 mm                    |
| Shaft Ø mm             | 6 - 8                                   |
| Power supply           | 5 V ± 5% or 5 ÷ 28 V ± 5%               |
| Protection class       | IP 65 or IP 67 (optional)               |
| Output                 | LINE DRIVER / PUSH-PULL                 |
| Max. frequency         | 120 kHz                                 |
| Electrical protections | inversion of polarity and short circuit |

