

# Steering Controller

## LG2



The steering controller LG2 is developed for the rough use in working machines. A long service life and high reliability is achieved by the latest contactless Hall technology. The CAN bus interface makes it easy to integrate the controller into any machine. The LG 2 is available with a handle or without a handle with a shaft outlet (12mm).

### Technical data

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Mechanical life LG2   | 10 million rotations                                             |
| Supply voltage        | See interface                                                    |
| Operation temperature | -40°C to +85°C                                                   |
| Degree of protection  | Up to IP67                                                       |
| Functional safety     | PLd compatible (EN ISO 13849, complies SIL2 to DIN EN IEC 61508) |

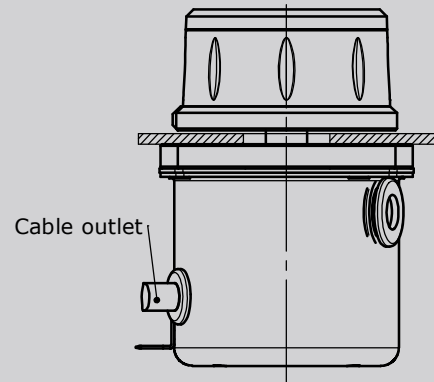
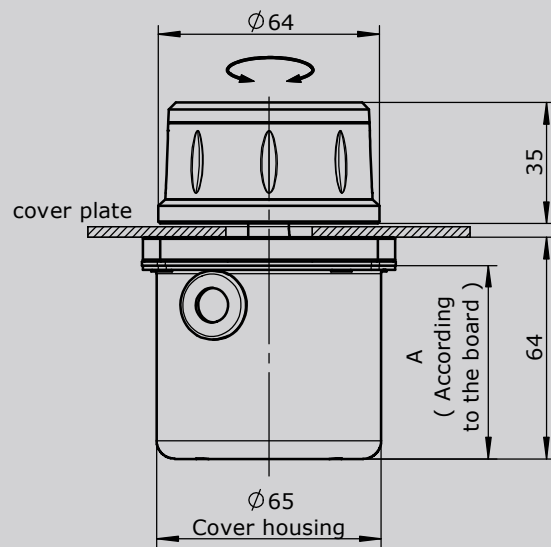


|                                                                  |                                     | Example |    |    |       |    |
|------------------------------------------------------------------|-------------------------------------|---------|----|----|-------|----|
|                                                                  |                                     | LG2     | -1 | -R | E3161 | -X |
| <b>Basic unit</b>                                                |                                     |         |    |    |       |    |
| LG2                                                              | Steering Encoder                    |         |    |    |       |    |
| <b>Grip</b>                                                      |                                     |         |    |    |       |    |
| 0                                                                | Without                             |         |    |    |       |    |
| 1                                                                | With grip                           |         |    |    |       |    |
| <b>Axis 1</b>                                                    |                                     |         |    |    |       |    |
| R                                                                | With friction brake, without detent |         |    |    |       |    |
| <b>Interface</b> <i>(description see on the following pages)</i> |                                     |         |    |    |       |    |
| E3xx                                                             | CAN-interface                       |         |    |    |       |    |
| E4xx                                                             | CAN Safety interface                |         |    |    |       |    |
| <b>Special model</b>                                             |                                     |         |    |    |       |    |
| X                                                                | Special / customer specified        |         |    |    |       |    |

| CAN                      |                                                         |
|--------------------------|---------------------------------------------------------|
| Supply voltage           | 9-32 V DC                                               |
| Idle current consumption | 120 mA (24 V DC)                                        |
| Protocol                 | CANopen CiA DS 301 or SAE J1939 (based on)              |
| Baud rate                | 20 kBit/s to 1 Mbit/s (standard 250 kBit/s)             |
| Wiring                   | CAN (IN) cable 300 mm with plug connector M12 (male)    |
|                          | CAN (OUT) cable 300 mm with plug connector M12 (female) |
| CAN                      |                                                         |
| E316 1                   |                                                         |

| CAN Safety               |                                                         |
|--------------------------|---------------------------------------------------------|
| Supply voltage           | 9-32 V DC                                               |
| Idle current consumption | 120 mA (24 V DC)                                        |
| Protocol                 | CANopen Safety EN50325-5 or J1939-76                    |
| Baud rate                | 20 kBit/s to 1 MBit/s (standard 250 kBit/s)             |
| Wiring                   | CAN (IN) cable 300 mm with plug connector M12 (male)    |
|                          | CAN (OUT) cable 300 mm with plug connector M12 (female) |
| CAN Safety               |                                                         |
| E415 1                   |                                                         |

| Attachments |                                                   |          |
|-------------|---------------------------------------------------|----------|
| Z01         | Mating connector M12 male insert with 2 m cable   | 20201140 |
| Z02         | Mating connector M12 female insert with 2 m cable | 20202298 |



Hole pattern  
( installed from below )

