

Single-Axis Controller  
S3





The Single-Axis Controller S3 is a rugged switching device for hoisting applications. The modular design enables the switching device to be used universally. The Single-Axis Controller is resistant to oil, maritime conditions e.g. offshore /vessels, UV radiation typically from the sun

Technical data

|                       |                             |
|-----------------------|-----------------------------|
| Mechanical life S3    | 12 million operating cycles |
| Operating temperature | -40°C to +85°C              |
| Degree of protection  | IP66 front                  |



|                                    |                                         | S3L | S5 | Q | -2 R P | -B | -A05 P484 | -E1291 | -S... | -X |
|------------------------------------|-----------------------------------------|-----|----|---|--------|----|-----------|--------|-------|----|
| Basic unit                         |                                         |     |    |   |        |    |           |        |       |    |
| S3L                                | Single-Axis Controller left             |     |    |   |        |    |           |        |       |    |
| Control-handle extended            |                                         |     |    |   |        |    |           |        |       |    |
| S5                                 | -20 mm                                  |     |    |   |        |    |           |        |       |    |
| Grip- control-handle left          |                                         |     |    |   |        |    |           |        |       |    |
| Q                                  | T-grip                                  |     |    |   |        |    |           |        |       |    |
| Axis 1                             |                                         |     |    |   |        |    |           |        |       |    |
| 2                                  | 2 contacts (1,5A 24 V DC13)             |     |    |   |        |    |           |        |       |    |
| R                                  | Friction brake                          |     |    |   |        |    |           |        |       |    |
| P                                  | Potentiometer                           |     |    |   |        |    |           |        |       |    |
| Cover housing                      |                                         |     |    |   |        |    |           |        |       |    |
| B                                  | Cover housing                           |     |    |   |        |    |           |        |       |    |
| Description axis 1 (direction 1-2) |                                         |     |    |   |        |    |           |        |       |    |
| A05                                | Arrangement MSP21                       |     |    |   |        |    |           |        |       |    |
| P484                               | Potentiometer T318 2 x 5 kOhm           |     |    |   |        |    |           |        |       |    |
| Interface                          |                                         |     |    |   |        |    |           |        |       |    |
| E1291                              | Voltage output 0...5...10 V             |     |    |   |        |    |           |        |       |    |
| Plug connectors                    |                                         |     |    |   |        |    |           |        |       |    |
| S..                                | Standard plug connectors (see page 127) |     |    |   |        |    |           |        |       |    |
| Special model                      |                                         |     |    |   |        |    |           |        |       |    |
| X                                  | Special / customer specified            |     |    |   |        |    |           |        |       |    |

Technical details may vary based on configuration or application! Technical data subject to change without notice!

|                                | S3L                                          | S5 | Q | -2 R P                                     | -B | -A05 | P484 | -E1291 | -S... | -X |
|--------------------------------|----------------------------------------------|----|---|--------------------------------------------|----|------|------|--------|-------|----|
| <b>Basic unit</b>              |                                              |    |   |                                            |    |      |      |        |       |    |
| S3L                            | Single-Axis Controller, control-handle left  |    |   |                                            |    |      |      |        |       |    |
| S3R                            | Single-Axis Controller, control-handle right |    |   |                                            |    |      |      |        |       |    |
| <b>Control-handle extended</b> |                                              |    |   |                                            |    |      |      |        |       |    |
|                                | Standard 148 mm*                             |    |   |                                            |    |      |      |        |       |    |
| S5                             | -20 mm                                       |    |   |                                            |    |      |      |        |       |    |
| S8                             | +20 mm                                       |    |   |                                            |    |      |      |        |       |    |
|                                |                                              |    |   | *Only possible in combination with handle! |    |      |      |        |       |    |
| <b>Grip</b>                    |                                              |    |   |                                            |    |      |      |        |       |    |
|                                | Knob                                         |    |   |                                            |    |      |      |        |       |    |
| D                              | Push button                                  |    |   |                                            |    |      |      |        |       |    |
| Q                              | T-grip                                       |    |   |                                            |    |      |      |        |       |    |
| QD                             | T-grip with push button side                 |    |   |                                            |    |      |      |        |       |    |

Identification of the installation variants  
with switching directions:

S3L

1

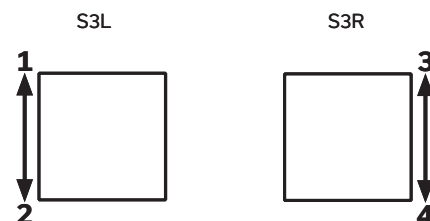
2

S3R

3

4

Identification of the installation variants  
with switching directions:



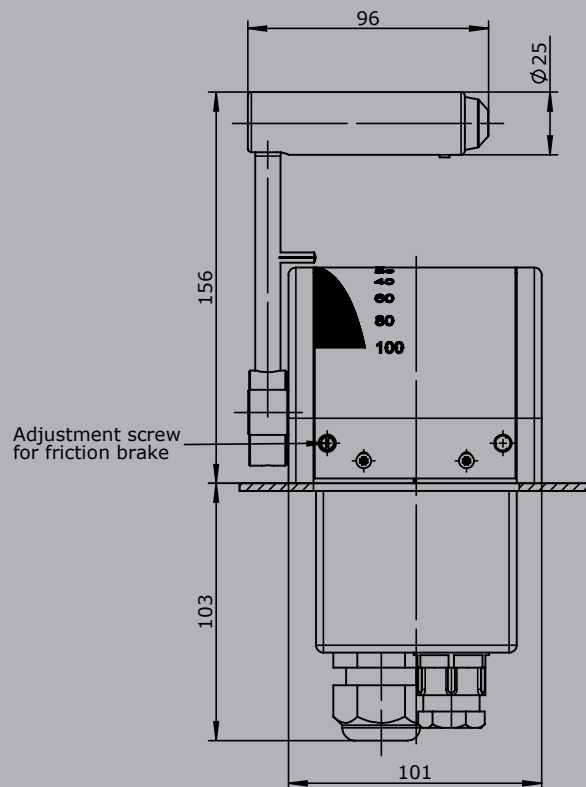
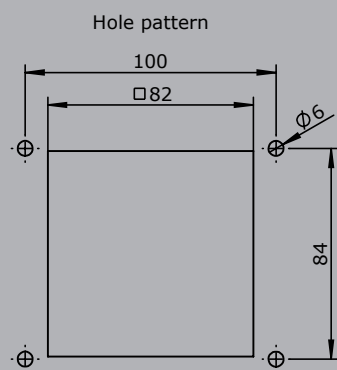
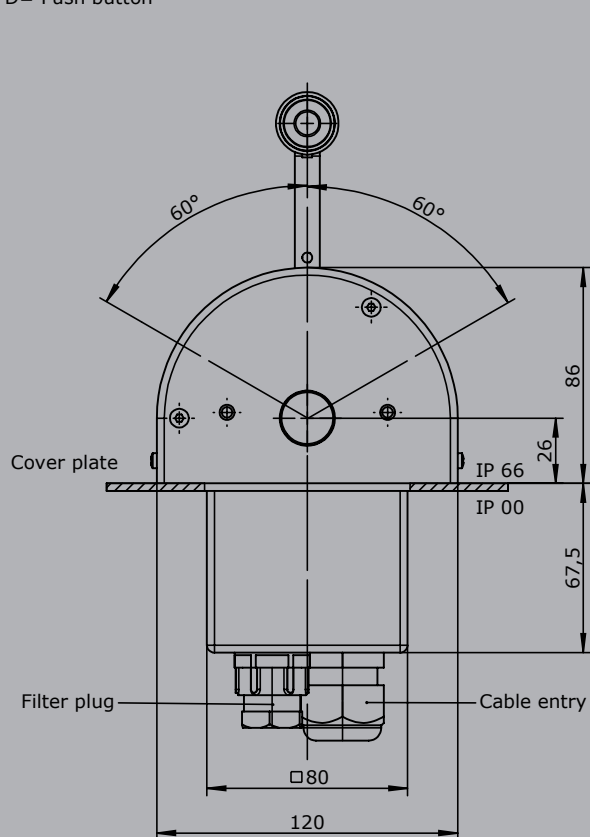
|                                   | S3L                                                                | S5 | Q | -2 R P | -B | -A05 | P484 | -E1291 | -S... | -X |
|-----------------------------------|--------------------------------------------------------------------|----|---|--------|----|------|------|--------|-------|----|
| <b>Axis 1: direction 1-2 left</b> |                                                                    |    |   |        |    |      |      |        |       |    |
| 1                                 | 1 contact                                                          |    |   |        |    |      |      |        |       |    |
| 2                                 | 2 contacts                                                         |    |   |        |    |      |      |        |       |    |
| 3                                 | 3 contacts                                                         |    |   |        |    |      |      |        |       |    |
|                                   | Standard contact - arrangement see page 129                        |    |   |        |    |      |      |        |       |    |
|                                   | z.B.                                                               |    |   |        |    |      |      |        |       |    |
|                                   | A98                                                                |    |   |        |    |      |      |        |       |    |
|                                   | A05                                                                |    |   |        |    |      |      |        |       |    |
|                                   | A050                                                               |    |   |        |    |      |      |        |       |    |
|                                   | A99 contact - arrangement according customer request               |    |   |        |    |      |      |        |       |    |
| R                                 | Friction brake                                                     |    |   |        |    |      |      |        |       |    |
| (P)                               | Possibility of mounting potentiometer and encoder (Gessmann-types) |    |   |        |    |      |      |        |       |    |
| P                                 | Potentiometer                                                      |    |   |        |    |      |      |        |       |    |
|                                   | P484                                                               |    |   |        |    |      |      |        |       |    |
|                                   | T318 2x5 kOhm                                                      |    |   |        |    |      |      |        |       |    |
|                                   | I max. 1 mA                                                        |    |   |        |    |      |      |        |       |    |
|                                   | More potentiometers on request!                                    |    |   |        |    |      |      |        |       |    |
| H                                 | Hall-Potentiometer                                                 |    |   |        |    |      |      |        |       |    |
|                                   | E14811                                                             |    |   |        |    |      |      |        |       |    |
|                                   | 0,5...2,5...4,5 V / 4,5...2,5...0,5 V                              |    |   |        |    |      |      |        |       |    |

|                                                       | S3L                          | S5 | Q | -2 R P | -B | -A05 | P484 | -E1291 | -S... | -X |
|-------------------------------------------------------|------------------------------|----|---|--------|----|------|------|--------|-------|----|
| Cover housing                                         |                              |    |   |        |    |      |      |        |       |    |
| B                                                     | Cover housing                |    |   |        |    |      |      |        |       |    |
| Interface <i>(description on the following pages)</i> |                              |    |   |        |    |      |      |        |       |    |
|                                                       | Potentiometer output         |    |   |        |    |      |      |        |       |    |
| E1xx                                                  | Voltage output               |    |   |        |    |      |      |        |       |    |
| E2xx                                                  | Current output               |    |   |        |    |      |      |        |       |    |
| Special model                                         |                              |    |   |        |    |      |      |        |       |    |
| X                                                     | Special / customer specified |    |   |        |    |      |      |        |       |    |

| Voltage output                              |                                                                               |        |        |
|---------------------------------------------|-------------------------------------------------------------------------------|--------|--------|
| Supply voltage                              | 11,5-32 V DC                                                                  |        |        |
| Wiring                                      | Cable 500 mm long without plug connector                                      |        |        |
|                                             | Optional with plug connector ( <i>standard plug connectors see page 127</i> ) |        | S      |
| 0...5...10V                                 |                                                                               | 1 axis | E112 1 |
| 10...0...10V                                |                                                                               | 1 axis | E141 1 |
| -10...0...+10V                              |                                                                               | 1 axis | E140 1 |
| Voltage output with other value on request! |                                                                               |        |        |

| Current output |                                                                               |        |        |
|----------------|-------------------------------------------------------------------------------|--------|--------|
| Supply voltage | 18-36 V DC                                                                    |        |        |
| Wiring         | Cable 500mm long without plug connector                                       |        |        |
|                | Optional with plug connector ( <i>standard plug connectors see page 127</i> ) |        | S      |
| 4...12...20 mA |                                                                               | 1 axis | E209 1 |
| 20...4...20 mA |                                                                               | 1 axis | E217 1 |

T - grip  
D= Push button



Knob solid  
D= Push button

