

# Single-axis controller S11



The single-axis controller S11 is a hall sensor switching device designed for electro-hydraulic and remote controlled hydraulic. The modular design of the switching device is universally applicable. The single-axis controller is resistant to oil, maritime conditions e.g. offshore /vessels, UV radiation typically from the sun.

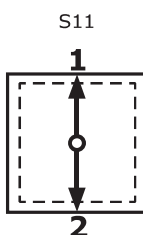
## Technical data

|                       |                                      |
|-----------------------|--------------------------------------|
| Mechanical life S11   | 6 million operating cycles           |
| Operating temperature | -40°C to +85°C                       |
| Degree of protection  | up to IP65, electronic assembly IP67 |



|   | S11 | T | Example<br>- Z | - E... | - S... | - X |
|---|-----|---|----------------|--------|--------|-----|
| <b>Basic unit</b>   |     |   |                |        |        |     |
| S11 1-axis  |     |   |                |        |        |     |
| <b>Grip / palm grip</b>                                     |     |   |                |        |        |     |
| Knob (standard)   |     |   |                |        |        |     |
| M Mechanical zero interlock                                 |     |   |                |        |        |     |
| T Dead man  |     |   |                |        |        |     |
| D Push button   |     |   |                |        |        |     |
| GS8 Knob GS8  |     |   |                |        |        |     |
| Z Spring return <i>(included in basic unit!)</i>            |     |   |                |        |        |     |
| R Friction brake  |     |   |                |        |        |     |
| <b>Interface</b> <i>(description on the following page)</i> |     |   |                |        |        |     |
| E0xx Digital output   |     |   |                |        |        |     |
| E1xx Voltage output   |     |   |                |        |        |     |
| E2xx Current output   |     |   |                |        |        |     |
| <b>Plug connectors</b>                                      |     |   |                |        |        |     |
| S.. Standard plug connectors <i>(see page 138)</i>          |     |   |                |        |        |     |
| <b>Special model</b>  |     |   |                |        |        |     |
| X Special / customer specified                              |     |   |                |        |        |     |

## Identification of the installation variants with switching directions:



| Digital Output                    |   |
|-----------------------------------|---|
| Supply voltage                    | 9-32 V DC   |
| Current carrying capacity         | Direction signal 150 mA   |
|                                   | Zero position signal 500 mA   |
| Wiring                            | Cable 500 mm long without plug connector                                      |
|                                   | Optional with plug connector ( <i>standard plug connectors see page 138</i> ) |
| Cable 500mm long with plug (male) |   |
|                                   | 1 axis  |
|                                   | E001 1  |

| Voltage output (not stabilized)                  |   |   |
|--|---|---|
| Supply voltage                                   | 4,75-5,25 V DC  |   |
| Current carrying capacity                        | Direction signal 8 mA   |   |
| Wiring   | Cable 500 mm long without plug connector                                      |   |
|  | Optional with plug connector ( <i>standard plug connectors see page 138</i> ) |   |
| 0,5...2,5...4,5V redundant + 2 direction signals |   |   |
|  | 1 axis  |   |
|  | E104 1  |   |
|  | <b>Output options</b>   |   |
|  | Characteristic:   |   |
|  | Inverse dual  | 1 |
|  | Dual  | 2 |
|  | Inverse dual with dead zone +/- 3° (standard)                                 | 3 |
|  | Dual with dead zone +/- 3°  | 4 |

| Voltage output   |   |   |
|--|---|---|
| Supply voltage   | 9-32 V DC (*11,5-32 V)  |   |
| Current carrying capacity  | Direction signal 150 mA   |   |
|  | Zero position signal 500 mA   |   |
| Wiring   | Cable 500 mm long without plug connector                                      |   |
|  | Optional with plug connector ( <i>standard plug connectors see page 138</i> ) |   |
| 0,5...2,5...4,5 V redundant + 2 direction signals + 1 zero position signal (galvanically isolated)   |   |   |
|  | 1 axis  |   |
|  | E112 1  |   |
| 0...5...10 V redundant + 2 direction signals + 1 zero position signal (galvanically isolated), supply voltage 11,5 - 32 V DC   |   |   |
|  | 1 axis  |   |
|  | E132 1  |   |
| 10...0...10 V + 2 direction signals + 1 zero position signal (galvanically isolated), supply voltage 11,5 - 32 V DC, sensor redundant with error monitoring and error signal |   |   |
|  | 1 axis  |   |
|  | E136 1  |   |
|  | <b>Output options</b>   |   |
|  | Characteristic:   |   |
|  | Inverse dual *1   | 1 |
|  | Dual *1   | 2 |
|  | Inverse dual with dead zone +/- 3° *1 (standard)                              | 3 |
|  | Dual with dead zone +/- 3° *1   | 4 |
|  | *1 not combinable with output E136X   |   |
|  | Single *2   | 5 |
|  | Single with dead zone *2 (standard)   | 6 |
|  | *2 not combinable with output E112X and E132X                                 |   |

Voltage output with other value on request!

| Current output   |   |        |   |
|--|---|--------|---|
| Supply voltage   | 9-32 V DC   |        |   |
| Current carrying capacity  | Direction signal 150 mA   |        |   |
|  | Zero position signal 500 mA   |        |   |
| Wiring   | Cable 500 mm long without plug connector                                      |        |   |
|  | Optional with plug connector ( <i>standard plug connectors see page 138</i> ) |        | S |
| 0...10...20 mA + 2 direction signals + 1 zero position signal (galvanically isolated), sensor redundant with error monitoring and error signal |   |        |   |
|  | 1 axis  | E206 1 |   |
| 20...0...20 mA + 2 direction signals + 1 zero position signal (galvanically isolated), sensor redundant with error monitoring and error signal |   |        |   |
|  | 1 axis  | E208 1 |   |
| 4...12...20 mA + 2 direction signals + 1 zero position signal (galvanically isolated), sensor redundant with error monitoring and error signal |   |        |   |
|  | 1 axis  | E214 1 |   |
| 20...4...20 mA + 2 direction signals + 1 zero position signal (galvanically isolated), sensor redundant with error monitoring and error signal |   |        |   |
|  | 1 axis  | E216 1 |   |
| <b>Output options</b>  |   |        |   |
|  | Single  |        | 5 |
|  | Single with dead zone +/-3° (standard)  |        | 6 |
| <i>Voltage output with other value on request!</i>   |   |        |   |



T = Dead man's button

