

Single-Axis Controller S11



The S11 is a one-axis joystick designed for electro-hydraulic and remote controlled hydraulic. Long life and high reliability is ensured by the latest contactless hall-technology. The modular design of the switching device is universally applicable.

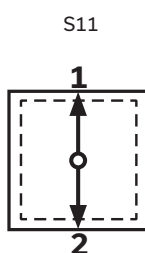
Technical data

Mechanical life S11	6 million operating cycles
Operating temperature	-40°C to +85°C
Degree of protection	up to IP65, electronic assembly IP67
Functional safety	PLd compatible (EN ISO 13849, complies SIL2 to EN IEC 61508)



	S11	T	Example - Z	- E...	- S...	- X
Basic unit						
S11 1-axis						
Grip / Palm Grip						
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						
Interface <i>(description on the following page)</i>						
E0xx Digital output						
E1xx Voltage output						
E2xx Current output						
Plug connectors						
S.. Standard plug connectors <i>(see page 120)</i>						
Special model						
X Special / customer specified						

Identification of the installation variants with switching directions:



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

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 120</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 120</i>)	
0,5...2,5...4,5V redundant + 2 direction signals		
	1 axis	
	E104 1	
	Output options	
	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 120</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	
	Output options	
	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 120</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	
Output options			
	Single		5
	Single with dead zone +/-3° (standard)		6
Voltage output with other value on request!			

T = Dead man's button

