

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

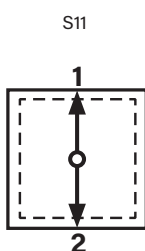
Mechanical life S11	6 million operating cycles
Operating temperature	-40°C to +85°C
Degree of protection	up to IP65, electronic assembly IP67
Functional safety	PLd compatible (EN ISO 13849, complies SIL2 to EN IEC 61508)



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	S11	T	- 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 (included in basic unit!)					
R	Friction brake					
Interface (description on the following page)						
E0xx	Digital output					
E1xx	Voltage output					
E2xx	Current output					
Plug connectors						
S..	Standard plug connectors (see page 149)					
Special model						
X	Special / customer specified					

Identification of the installation variants with switching directions:



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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 149</i>)	S
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 149</i>)	S
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 149</i>)	S
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!

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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 149</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
<i>Voltage output with other value on request!</i>				



T = Dead man's button

