Single-Axis Controller
S27

The Single-Axis Controller S27 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

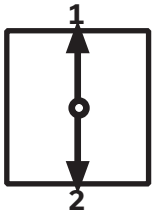
Mechanical life S27	6 million operating cycles
Operating temperature	-40°C to +85°C
Degree of protection	up to IP65, electronic assembly IP67
Functional safety	PLd compatible (EN ISO 13849, complies SIL2 to DIN EN IEC 61508)

Example

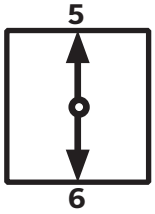
	S27L	M	- Z	- E...	- S...	- X
Basic unit						
S27L left						
S27R right						
Grip / palm grip						
Knob (standard)						
M Mechanical zero interlock						
Q T-grip						
Z Spring return						
R Friction brake						
Interface *(description on the following pages)*						
E0xx Digital output						
E1xx Voltage output						
E2xx Current output						
Plug connectors						
S.. Standard plug connectors *(see page 120)*						
Special model						
X Special / customer specific						

Identification of the installation variants with switching directions:

S27 left



S27 right



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

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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 *(standard plug connectors see page 120)*		S
2 direction signals + 1 zero position signal (galvanically isolated)			
	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 *(standard plug connectors see page 120)*		S
0,5...2,5...4,5 V 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 *(standard plug connectors see page 120)*		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 witherror 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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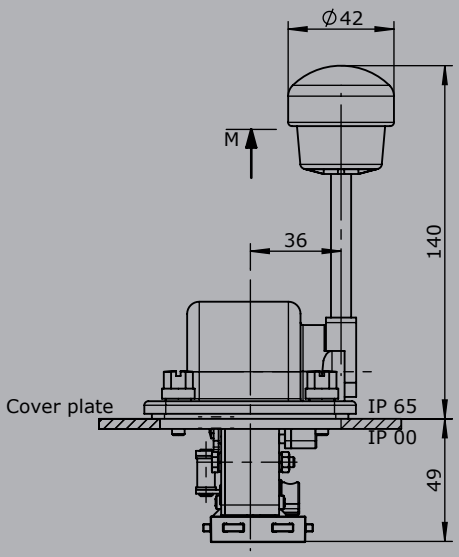
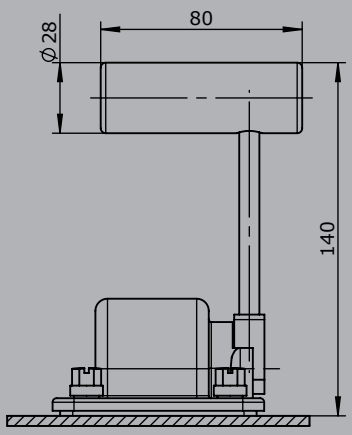
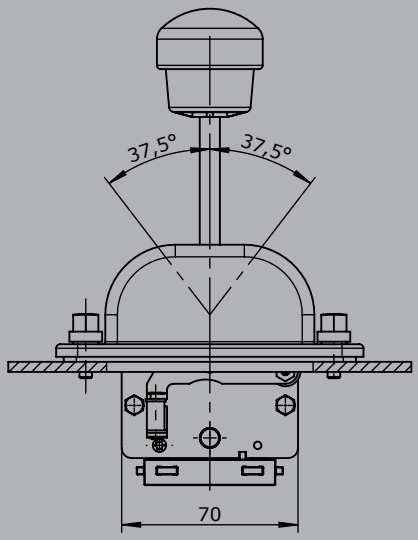
Current output				
Supply voltage	9-32 V DC			
Current carrying capacity	Direction signal 150 mA			
	Zero position signal 500 mA			
Wiring	Cable 500 mm long without plug connector			
	Optional with plug connector *(standard plug connectors see page 120)*			S
0...10...20 mA + 2 direction signals + 1 zero 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
Current output with other value on request!				

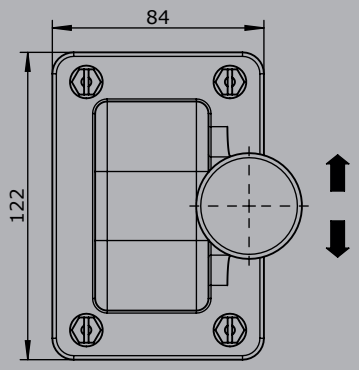
M = Latch for mechanical zero interlock



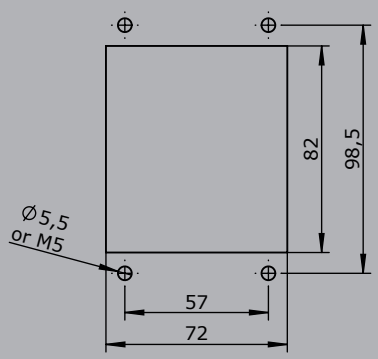
T - grip







Hole pattern



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