



The V21 is a Mini-Joystick commonly used in electro-hydraulic applications. The V21 is especially suitable for installation in our ball grips. Long life and high reliability is ensured by the latest contactless hall-technology.

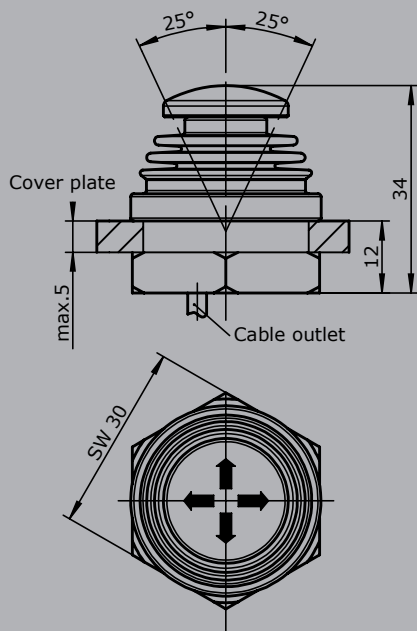
Technical data

Mechanical life	5 million operating cycles
Operating force	1,6 to 3,5N
Supply voltage	5V DC stabilized
Operation temperature	-40°C to +85°C
Degree of protection	IP67
Functional safety	PLd compatible (EN ISO 13849, complies SIL2 to DIN EN IEC 61508)

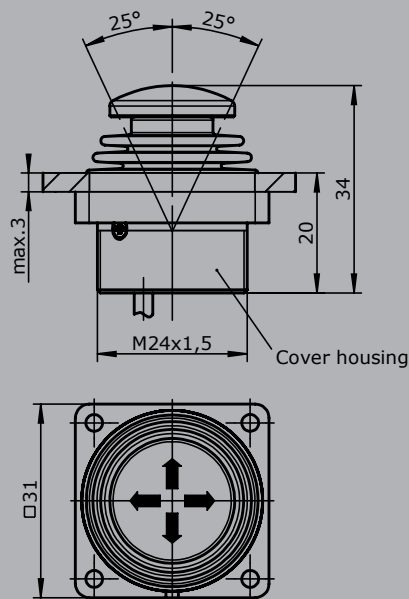


		V21	P	Example	-1	-E1032	-X
Basic unit							
V21.1	Mini-Joystick 1-axis, installation from top with fixing nut						
V21	Mini-Joystick 2-axis, installation from top with fixing nut						
V21.1A	Mini-Joystick 1-axis, with flange, installation from below						
V21A	Mini-Joystick 2-axis, with flange, installation from below						
V21.1B	Mini-Joystick 1-axis, with flange, installation from top						
V21B	Mini-Joystick 2-axis, with flange, installation from top						
Gate							
P	Cross gate						
P X	Special gate						
Knob							
	Standard						
1	KBAD 980						
2	KBAD 1658						
3	KBAD 1690						
Interface							
Voltage output							
0,5...2,5...4,5 V redundant by Ub= 5 V							
		1 axis				E103 1	
		2 axis				2	
		Characteristic:					
		Inverse dual (standard)					1
		Dual					2
SPI-Interface on request							
Special model							
X	Special / customer specified						

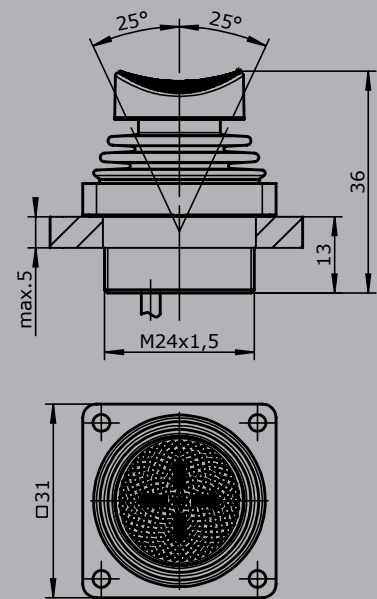
Standard
installed from the top



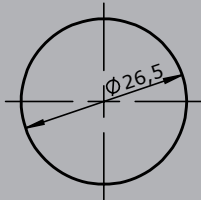
Version A with flange
installed from below



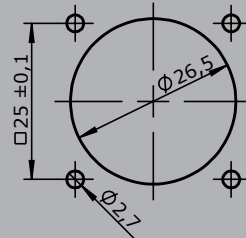
Version B with flange
installed from the top
with actuator KBAD 980



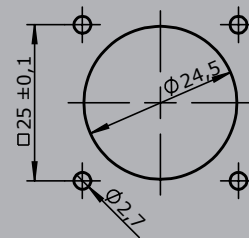
Hole pattern



Hole pattern



Hole pattern



Actuator KBAD 1658



Actuator KBAD 1690

