

Hall-Potentiometer

N10

GESSMANN®

The N10 is a Hall-Potentiometer for electrohydraulic and hoisting applications. Long life and high reliability is ensured by the latest contactless hall-technology. Up to 18 detent points can be integrated.

Technical data

Mechanical life N10	10 million operating cycles
Mechanical life with detent/friction brake	3 million operating cycles
Operating temperature	-40°C to +85°C
Degree of protection	IP67 (electronic)
Functional safety	PLd compatible (EN ISO 13849, complies SIL2 to DIN EN IEC 61508)



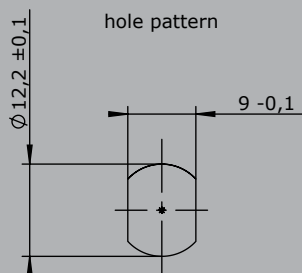
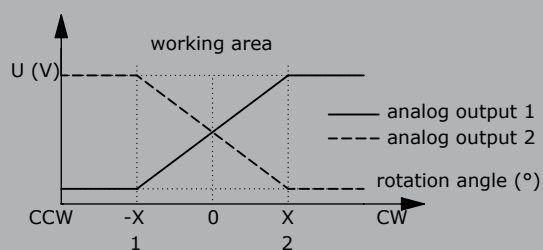
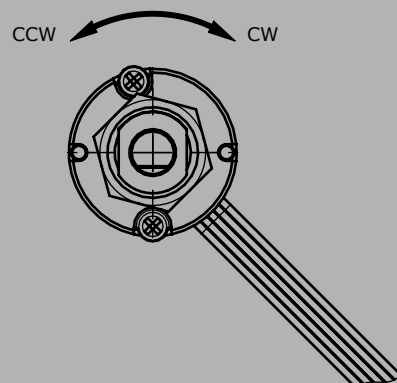
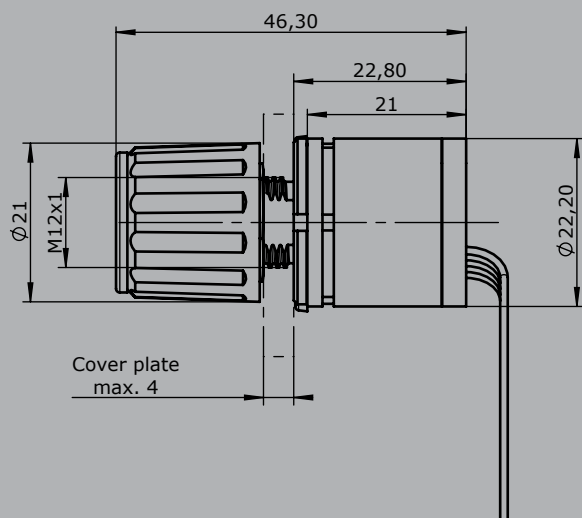
	N10	-90	Example 1	-6	-E14811	-X
Basic unit						
N10A	Hall-Potentiometer with rotary knob					
Operating distance						
360° (rotating without stop)						
270°						
180°						
90°						
Detent						
0	Without detent, with friction brake					
1	Detent point in middle position					
3	Detent point in Position 1					
4	Detent point in Position 2					
R15	Detent point at intervals of 15°					
Dead zone around the center position						
0	No dead zone					
Example +/-3° => 6						
Interfaces						
Voltage output						
E1481	1 0,5...2,5...4,5 V dual inverse Ub= 5 V DC					
	2 0,5...2,5...4,5 V dual positive gradient clockwise (cw) Ub= 5 V DC					
	3 0,5...2,5...4,5 V dual positive gradient counter clockwise (ccw) Ub= 5 V DC					
E1491	1 0,5...2,5...4,5 V positive gradient clockwise (cw) with zero position signal Ub= 5 V DC					
	2 0,5...2,5...4,5 V positive gradient counter clockwise (ccw) with zero position signal Ub= 5 V DC					
	3 0,5...2,5...4,5 V positive gradient clockwise (cw) with direction signals Ub= 5 V DC					
	4 0,5...2,5...4,5 V positive gradient counter clockwise (ccw) with direction signals Ub= 5 V DC					
E1531	1 0,5...2,5...4,5 V redundant triangular characteristic 90° offset Ub= 5 V DC					

More interfaces (for example SPI Bus) on request!

Special model

X Special / customer specified

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



Position of the shaft:

detent in the middle position

detent in 1 figure -90°

detent in 2 figure +90°

