



Sensor de ângulo 424Z

O sensor de ângulo axial modelo 424Z tem um design compacto. Disponível opcionalmente com sinal de saída redundante torna o sensor 424Z a solução ideal para aplicações com elevado nível de segurança, especialmente para aplicações móveis. O range de medição é de 30 ° até 120 °. Devido à tecnologia de sensores de efeito Hall, trata-se de um sensor extremamente confiável e com elevada vida útil.

Especificação Técnica

- Durabilidade e confiabilidade de medição devido à tecnologia de sensores de efeito Hall
- Classe de proteção IP67
- Temperatura de trabalho -40 °C até +85 °C
- Resolução 0.1°
- Range de medição de 30° até 120°
- Sinal de saída 0.5 V – 4.5V
- Sinal de saída redundante opcional
- Travamento mecânico do eixo do sensor (180°)

Desenho técnico

IMAGE 1/5

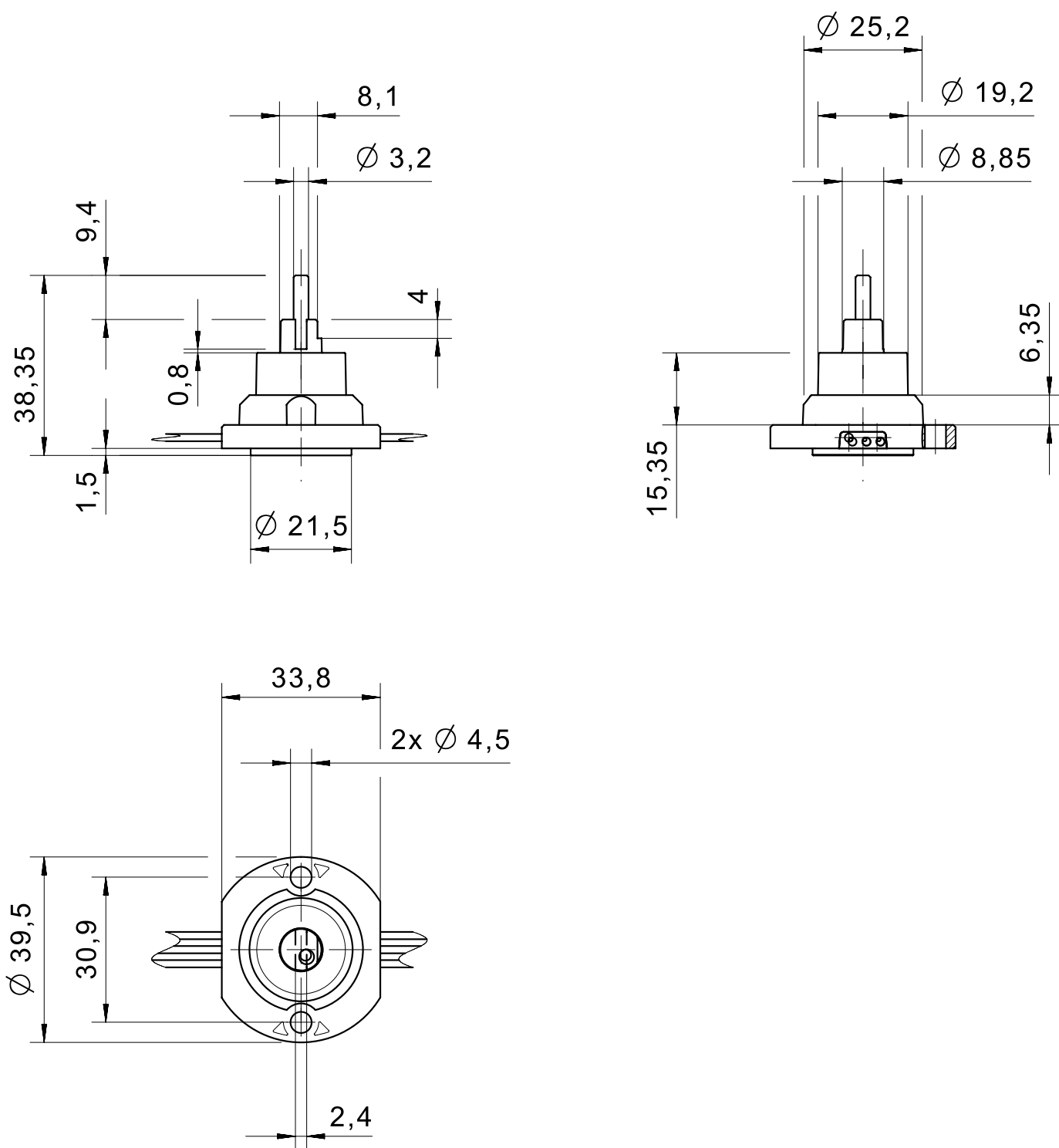
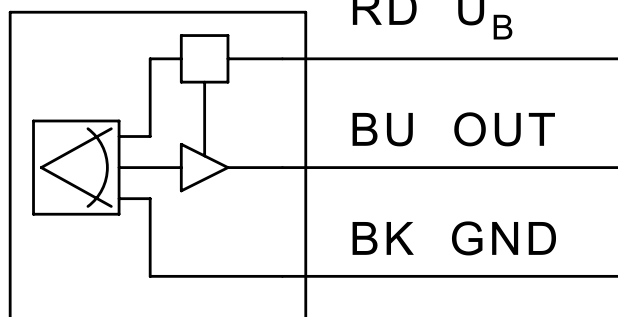


IMAGE 2/5

424ZE..



424ZP..

424ZG..

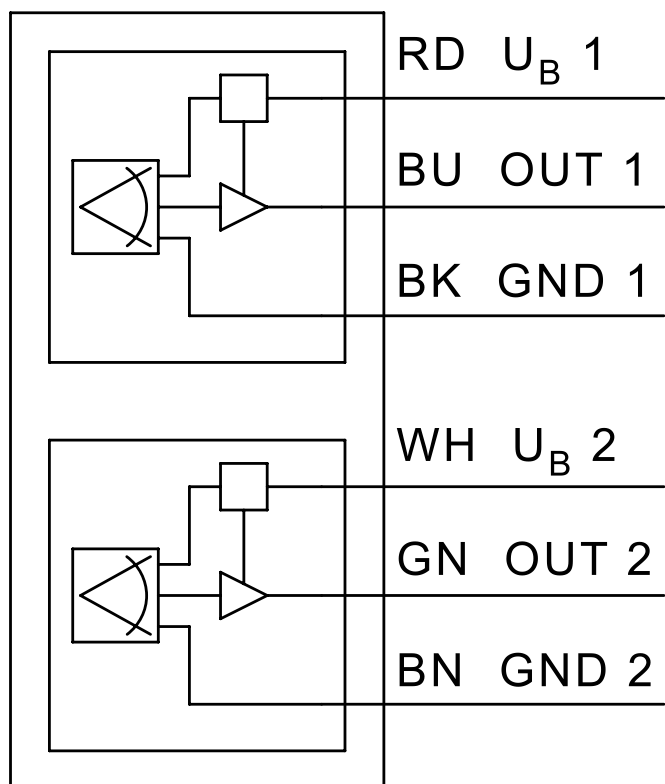
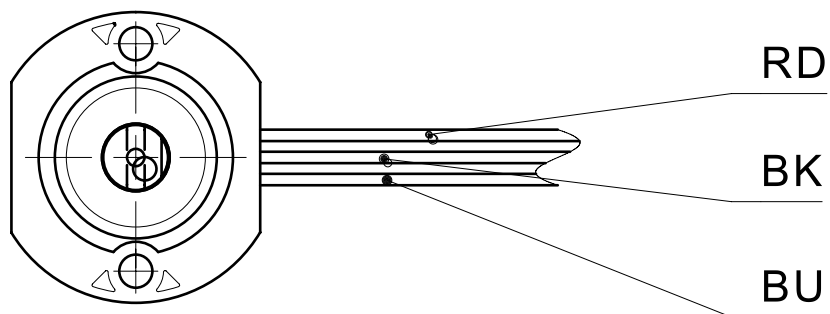


IMAGE 3/5

424ZE..



424ZP..
424ZG..

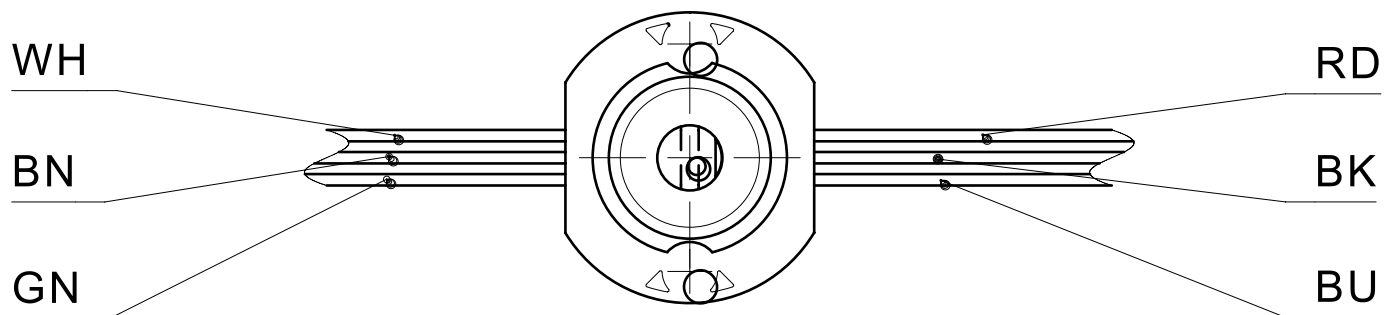
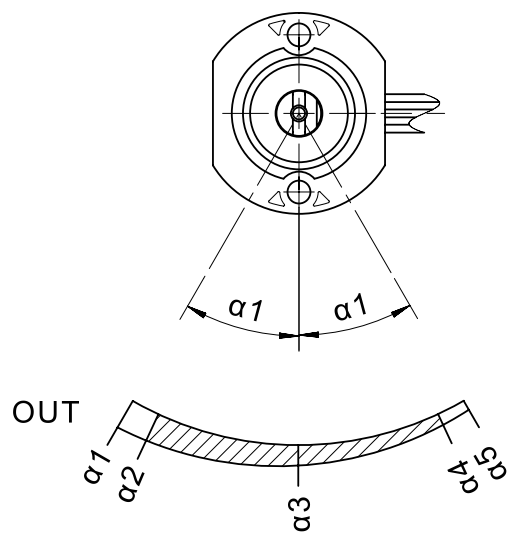


IMAGE 4/5

424ZE...CW



424ZE...CCW

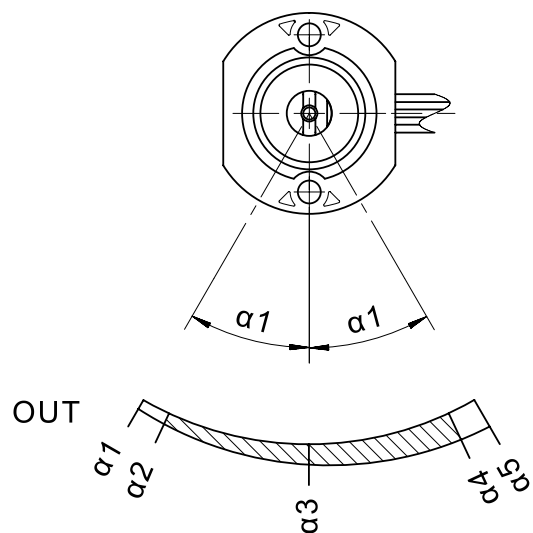
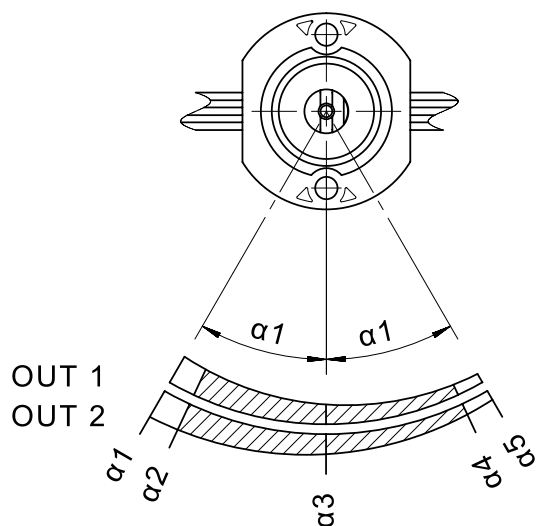
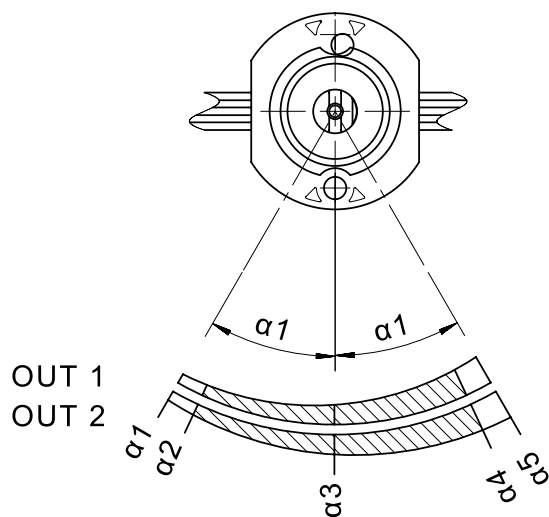


IMAGE 5/5

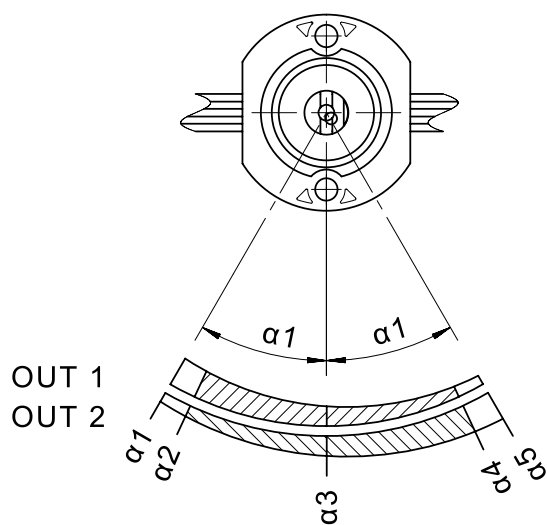
424ZP...CW/CW



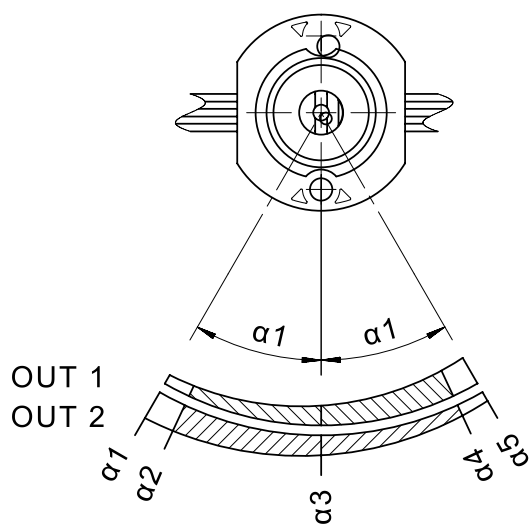
424ZP...CCW/CCW



424ZG...CW/CCW



424ZG...CCW/CW



Product options

IMAGE 1/1

ORDERING KEY

| | | | |
|------|---|-----|---|
| 424Z | | | Axial angle sensor 120°, magnetic + redundant |
| | | | |
| | | | Output signal / signal sequence |
| | E | | Output 1 / CCW |
| | G | | Opposite (output 1 + output 2) / CCW/CW |
| | | | |
| | | | Angle measuring range |
| | | 030 | 30° |
| | | 045 | 45° |
| | | 060 | 60° |
| | | 090 | 90° |
| | | 120 | 120° |

Optional

Output signal

Parallel

Características do artigo

| Attribute | 424Z... |
|---|--|
| Polarity reversal protection | yes |
| Output signal min. | 0.5 V DC |
| Output signal max. | 4.5 V DC |
| Output signal - centre position/zero position | 2.5 V DC |
| Resolution | 0.1 ° |
| Operating voltage min. | 4.5 V DC |
| Operating voltage max. | 5.5 V DC |
| Current consumption | 10 mA |
| Temperature coefficient | typ. +- 250 ppm/K |
| Signal sequence | CCW or CCW/CW |
| Signal update rate | 2000 Hz |
| Outputs (quantity, type) | 1 or 2 |
| Technology | Hall |
| Angle measuring range | 30° ... 120 ° |
| Outputs | 0,5...4,5V |
| MTTF | 717.9 a |
| Load resistance min. | 10000 Ohm |
| Typical linearity error | = +/-15° : +/-0,2° = +/-25° : +/-0,4° = +/-35° : +/-1,0° = +/-45° : +/-2,0° = +/-60° : +/-5,0° |
| EMC Agricultural and forestry machines (Norm) | EN ISO 14982 conducted disturbance not applicable for 5V supply |
| EMC Earth-moving and building construction machinery (Norm) | DIN EN ISO 13766-1 conducted disturbance not applicable for 5V supply |
| EMC Industrial trucks (Norm) | DIN EN 12895 |
| Max. shaft load, axial | 0 N |
| Max. shaft load, radial | 0 N |
| Bearing | Plastic plain bearing |
| Mechanical stop | yes |
| Protection class | IP67 DIN EN 60529 |
| Operating temperature min. | -40 °C |
| Max. operating temperature | 85 °C |

Características do artigo

| Attribute | 424Z... |
|--|---------|
| Min. storage temperature | -40 °C |
| Max. storage temperature | 85 °C |
| Min. cable temperature range, fixed installation | -40 °C |
| Max. cable temperature range, fixed installation | 105 °C |
| Torque for fastening screws | 1 N m |
| Cable type | Strand |
| Cable length | 0.5 m |