



## CAN angle sensor 424C

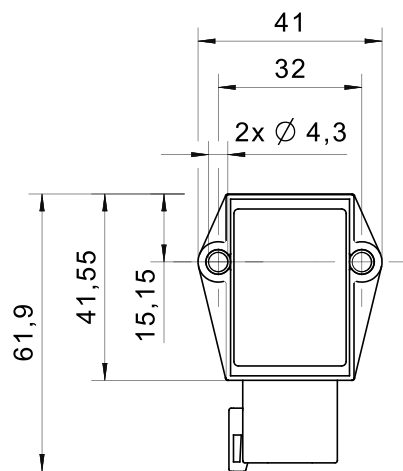
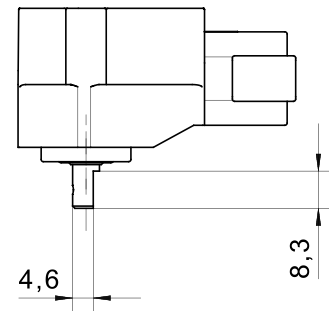
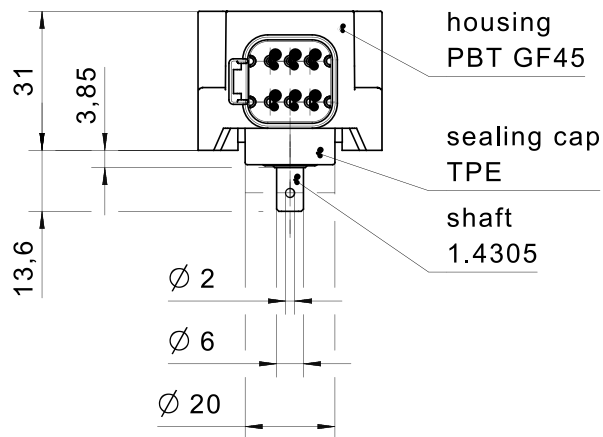
The 360° angle sensor 424C is used for angle measurements from 20° to 360° and is based on the contactless Hall measurement principle. It is extremely reliable and ensures a long service life. Due to the ball bearing, the pivot axis can absorb smaller radial forces and is therefore suitable for many applications in automation and vehicle construction where rotary movements of an axis must be detected.

### Product characteristics

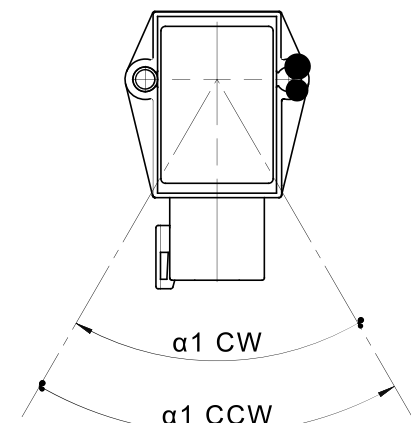
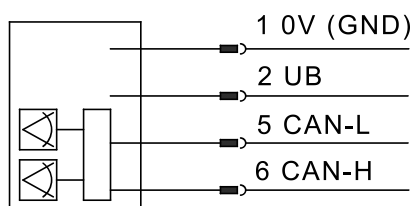
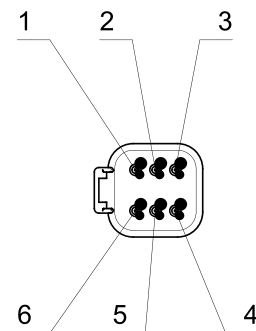
- Long lifetime and extremely reliable from contactless measurement with Hall principle
- Angle measuring range up to 360°
- IP67 protection class for harsh environmental conditions
- Temperature range 40 °C to +85 °C
- CAN bus connection (ISO 11898)
- Protocols CANopen and SAE J1939
- Optionally with operating lever
- Connection with Deutsch DT06-6S connector

## Technical drawing

IMAGE 1/1



Deutsch DT06-6S male



## Product options

IMAGE 1/1

### ORDERING KEY

| 424C... |   |     |   | CAN angle sensor 360°                                    |
|---------|---|-----|---|--|
|         |   |     |   |  |
|         |   |     |   | <b>CAN protocol</b>                                      |
|         | 0 |     |   | CANopen  |
|         | J |     |   | 1939   |
|         |   |     |   |  |
|         |   |     |   | <b>Angle measuring range</b>                             |
|         |   | 360 |   | 360°   |
|         |   |     |   |  |
|         |   |     |   | <b>Operating lever</b>                                   |
|         |   |     | B | Yes  |
|         |   |     | - | No (if selected without lever, this position is omitted) |

## Article characteristics

| Attribute   | 424CJ360   | 424C0360 |
|---|--|----------|
| Polarity reversal protection                                | yes  |          |
| Resolution  | 0.1 °  |          |
| Operating voltage min.                                      | 9 V DC   |          |
| Operating voltage max.                                      | 32 V DC  |          |
| Current consumption   | 70 mA  |          |
| Temperature coefficient                                     | 5.6 ppm/K  |          |
| Linearity error   | +- 1 %   |          |
| Signal sequence   | CW/CCW   |          |
| Signal update rate  | 10 Hz  |          |
| Outputs (quantity, type)                                    | 1  |          |
| Technology  | Hall   |          |
| Angle measuring range                                       | 360 °  |          |
| Fieldbus system   | CAN  |          |
| Protocol  | J1939  | CANopen  |
| Node ID / Source Address                                    | 0x15   | 0x02     |
| Transmitting cycle  | 100 ms   |          |
| Baud rate   | 250 kBit/s   |          |
| Bus terminating resistor                                    | no   |          |
| Outputs   | CAN J1939  | CANopen  |
| MTTF  | 49.3 a   |          |
| EMC Agricultural and forestry machines (Norm)               | EN ISO 14982<br>pulse 5b: max. voltage 56V (absolute), functional status C for pulse 1 and 4 |          |
| EMC Earth-moving and building construction machinery (Norm) | DIN EN ISO 13766-1<br>pulse "load dump": max. voltage 56V (absolute)                         |          |
| EMC Industrial trucks (Norm)                                | DIN EN 12895   |          |
| Max. shaft load, axial                                      | 50 N   |          |
| Max. shaft load, radial                                     | 100 N  |          |
| Mechanical stop   | no   |          |
| Actuating lever   | Selectable   |          |
| Protection class  | IP67 DIN EN 60529  |          |
| Operating temperature min.                                  | -40 °C   |          |
| Max. operating temperature                                  | 85 °C  |          |
| Min. storage temperature                                    | -40 °C   |          |

#### Article characteristics

| Attribute                   | 424CJ360        | 424C0360 |
|-----------------------------|-----------------|----------|
| Max. storage temperature    | 85 °C           |          |
| Torque for fastening screws | 2.5 N m         |          |
| Connector type              | Deutsch DT04-6P |          |