

CE e1 cULus CANopen

## Properties

- 1 and 2 axes measurement
- 30° and 360° measurement range versions
- CANopen and J1939 protocol versions
- Connector version

## Technical Data

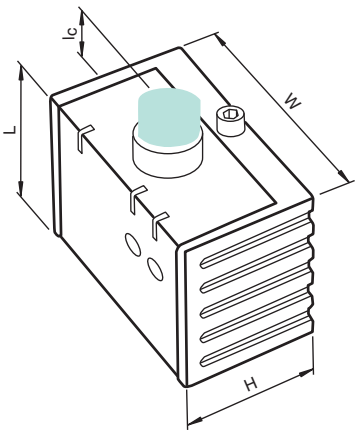
*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

| General Data | |
|---|---|
| No-load supply current | ≤ 65 mA |
| Data output code | binary code |
| Ambient temperature | -40 ... 85 °C (-40 ... 185 °F) |
| Housing material | PA |
| Protection degree | IP68 / IP69K |
| Connection type | M12 x 1 connector, 5-pin |



| Model Number | | INX360D-F99-B16-V15 | INY360D-F99-B16-V15 | INY030D-F99-B16-V15 | INX360D-F99-B20-V15 | INY360D-F99-B20-V15 | INY030D-F99-B20-V15 |
|---|---|---|---|---|---|---|---|
| Type | Inclination sensor, 1-axis | ● | | | ● | | |
| | Inclination sensor, 2-axis | | ● | ● | | ● | ● |
| Measurement range | 0 ... 360 ° | ● | ● | | ● | ● | |
| | -15 ... 15 ° | | | ● | | | ● |
| Absolute accuracy | ≤ ± 0.5 ° | ● | ● | | ● | ● | |
| | ≤ ± 0.2 ° | | | ● | | | ● |
| Resolution | ≤ 0.1 ° | ● | ● | | ● | ● | |
| | ≤ 0.01 ° | | | ● | | | ● |
| Operating voltage | 10 ... 30 V DC | ● | ● | ● | | | |
| | 10 ... 60 V DC | | | | ● | ● | ● |
| Interface type | CANopen, profile CiA410, Ver. 1.2 | ● | ● | ● | | | |
| | J1939 protocol | | | | ● | ● | ● |
| Transfer rate | 125 ... 1000 kBit/s , programmable | ● | ● | ● | | | |
| | 10 ... 1000 kBit/s , programmable | | | | ● | ● | ● |
| Node ID | 1 ... 127 , programmable | ● | ● | ● | | | |
| | 0 ... 253 , programmable | | | | ● | ● | ● |
| **Approvals and Certificates** | | | | | | | |
| CSA approval | cCSAus Listed, General Purpose, Class 2 Power Source | ● | ● | ● | ● | ● | ● |
| CCC approval | Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval. | ● | ● | ● | ● | ● | ● |
| e1 Type approval | 2006/28/EG | ● | ● | ● | ● | ● | ● |

| Dimensions | |
|---|---|
| Length L [mm] | 44 |
| Width W [mm] | 65 |
| Height H [mm] | 37 |
| Connector area $l_c$ [mm] | 18.5 |




## Accessories

This and more accessories can be found in chapter 10

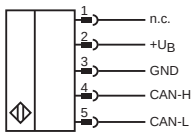
See pages from 974 ... for cordsets See pages 1074 ... for mounting aids

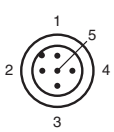
| | |
|---|---|
| **V15-G-2M-PUR-CAN-V15-G** | DeviceNet/CANOpen bus cable, M12 to M12, PUR cable 5-pin |
| **V15-G-5M-PUR-CAN-V15-G** | DeviceNet/CANOpen bus cable, M12 to M12, PUR cable 5-pin |
| **V15-G-10M-PUR-CAN-V15-G** | DeviceNet/CANOpen bus cable, M12 to M12, PUR cable 5-pin |
| **V15S-T-CAN/DN-V15** | T distributor, M12 socket on M12 connector/socket |
| **ICZ-TR-CAN/DN-V15** | Terminal resistor for DeviceNet, CANopen |

## Electrical Connection



INX360D-F99-B16-V15
INY030D-F99-B16-V15
INY360D-F99-B16-V15
INX360D-F99-B20-V15
INY030D-F99-B20-V15
INY360D-F99-B20-V15




Wire colors in accordance with EN 60947-5-2

| | | |
|---|---|---|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |
| 5 | GY | (gray) |



Ausgabedatum 30.07.2012