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# KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX F5868 / F5888, OPTICAL, CANOPEN, Ø58 MM

SERIE F5868 CANOPEN



- Housing diameter Ø58 mm
- CANopen - Interface
- 16 + 16 bit resolution
- -40 to +85 ° C working temperature

## PRODUCT DESCRIPTION

Sendix F5868 / F5888 is a series of multivalved optical axes and hole axes with CANopen interface and resolution of up to 32 bits (16 bit multi-color + 16-bit one-turn).
The sensor also has high enclosure, shock resistance and a wide temperature range. The F5868 / F5888 is therefore very suitable for applications where extreme environments or temperatures may occur, such as mobile applications.

Please refer to the image below for ordering information.

**Order code Shaft version** 8.F5868 . X X 2 X . 21 2 X
Type — a b c d — e — f

**a** *Flange*
**1 = clamping flange, IP65 ø 58 mm [2.28"]**
3 = clamping flange, IP67 ø 58 mm [2.28"]
**2 = synchro flange, IP65 ø 58 mm [2.28"]**
4 = synchro flange, IP67 ø 58 mm [2.28"]

**b** *Shaft (ø x L), with flat*
**1 = 6 x 10 mm [0.24 x 0.39"] 1)**
**2 = 10 x 20 mm [0.39 x 0.79"] 2)**
3 = 1/4" x 7/8"
4 = 3/8" x 7/8"

**c** *Interface / power supply*
**2 = CANopen DS301 V4.02 / 10 ... 30 V DC**

**d** *Type of connection*
A = radial cable, 2 m [6.56'] PVC
B = radial cable, special length PVC *)
**E = 1 x radial M12 connector, 5-pin**
F = 2 x radial M12 connector, 5-pin
*) Available special lengths (connection type B): 3, 5, 8, 10, 15 m [9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.F5868.122B.2123.0030 (for cable length 3 m)

**e** *Fieldbus profile*
**21 = CANopen**

**f** *Options (service)*
2 = no option
**3 = SET button**

*Optional on request*
- Ex 2/22 3)
- surface protection salt spray tested

**Order code Hollow shaft** 8.F5888 . X X 2 X . 21 2 X
Type — a b c d — e — f

**a** *Flange*
1 = with spring element, long, IP65
2 = with spring element, long, IP67
3 = with stator coupling, IP65 ø 65 mm [2.56"]
4 = with stator coupling, IP67 ø 65 mm [2.56"]
**5 = with stator coupling, IP65 ø 63 mm [2.48"]**
6 = with stator coupling, IP67 ø 63 mm [2.48"]

**b** *Through hollow shaft*
3 = ø 10 mm [0.39"]
**4 = ø 12 mm [0.47"]**
5 = ø 14 mm [0.55"]
6 = ø 15 mm [0.59"]
*Blind hollow shaft (insertion depth max. 30 mm [1.18"])*
B = ø 12 mm 1)

**c** *Interface / power supply*
**2 = CANopen DS301 V4.02 / 10 ... 30 V DC**

**d** *Type of connection*
L = tangential cable, 2 m [6.56'] PVC
M = tangential cable, special length PVC *)
**E = 1 x radial M12 connector, 5-pin**
F = 2 x radial M12 connector, 5-pin 2)
*) Available special lengths (connection type M): 3, 5, 8, 10, 15 m [9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.F5888.542M.2123.0030 (for cable length 3 m)

**e** *Fieldbus profile*
**21 = CANopen**

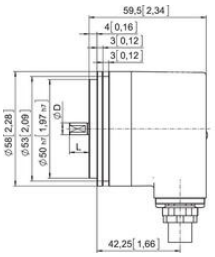
**f** *Options (service)*
2 = no option
**3 = SET button**

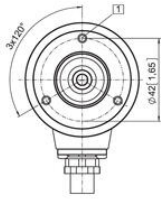
*Optional on request*
- Ex 2/22 3) (not for type of connection L, M)
- surface protection salt spray tested

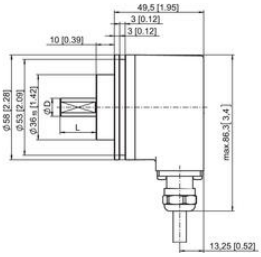
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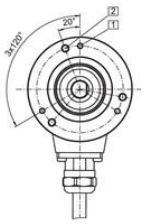
# TECHNICAL DATA

| | |
|---|---|
| **Connection** | Cable, M12 |
| **Housing diameter** | 58 mm |
| **IP class** | IP65, IP67 |
| **Mounting** | Shoulder |
| **Output** | CANopen |
| **Resolution MT** | 16 bit |
| **Resolution ST** | Max: 16 bit, default: 13 bit |
| **Sensor type** | Absolute |
| **Shaft diameter max** | 10 mm |
| **Shaft diameter min** | 6 mm |
| **Supply voltage dc max** | 30 V DC |
| **Supply voltage dc min** | 10 V DC |
| **Temperature operational max** | 85 °C |
| **Temperature operational min** | -40 °C |
| **Version** | Multiturn |




| Interface | Type of connection | Function | Cable(Bus terminal cover with terminal box) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | A, B, L, M | Bus IN | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | 0 V | +V | CL | CH | CG | |
| | | | Cable colour | WH | BN | YE | GN | GY | |

| Interface | Type of connection | Function | 2 x M12 connector | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | F | Bus IN | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | 0 V | +V | CL | CH | CG | |
| | | | Pin: | 3 | 2 | 5 | 4 | 1 | |
| | | Bus OUT | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | CG | CL | CH | 0 V | +V | |
| | | | Pin: | 3 | 2 | 5 | 4 | 1 | |

| Interface | Type of connection | Function | 1 x M12 connector | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | E | Bus IN | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | 0 V | +V | CL | CH | CG | |
| | | | Pin: | 3 | 2 | 5 | 4 | 1 | |


| Interface | Type of connection | Function | Cable(Bus terminal cover with terminal box) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | A, B, L, M | Bus IN | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | 0 V | +V | CL | CH | CG | |
| | | | Cable colour | WH | BN | YE | GN | GY | |

| Interface | Type of connection | Function | 2 x M12 connector | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | F | Bus IN | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | 0 V | +V | CL | CH | CG | |
| | | | Pin: | 3 | 2 | 5 | 4 | 1 | |
| | | Bus OUT | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | CG | CL | CH | 0 V | +V | |
| | | | Pin: | 3 | 2 | 5 | 4 | 1 | |

| Interface | Type of connection | Function | 1 x M12 connector | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 2 | E | Bus IN | Signal: | 0 V power supply | +V power supply | CAN_L | CAN_H | CAN_GND | |
| | | | Abbreviation | 0 V | +V | CL | CH | CG | |
| | | | Pin: | 3 | 2 | 5 | 4 | 1 | |