

**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	8.F5868 . XX2X . 21 2X						
Shaft version	Type	a	b	c	d	e	f
<b>a</b> Flange		<b>1</b> = clamping flange, IP65 ø 58 mm [2.28"] 3 = clamping flange, IP67 ø 58 mm [2.28"]		<b>c</b> Interface / power supply		<b>e</b> Fieldbus profile	
<b>2</b> = synchro flange, IP65 ø 58 mm [2.28"] 4 = synchro flange, IP67 ø 58 mm [2.28"]				<b>2</b> = CANopen DS301 V4.02 / 10 ... 30 V DC		<b>21</b> = CANopen	
<b>b</b> Shaft (ø x L), with flat		<b>1</b> = 6 x 10 mm [0.24 x 0.39"] <sup>1)</sup> <b>2</b> = 10 x 20 mm [0.39 x 0.79"] <sup>2)</sup> 3 = 1/4" x 7/8" 4 = 3/8" x 7/8"		<b>d</b> Type of connection		<b>f</b> Options (service)	
				A = radial cable, 2 m [6.56'] PVC B = radial cable, special length PVC *) <b>E</b> = 1 x radial M12 connector, 5-pin F = 2 x radial M12 connector, 5-pin		2 = no option <b>3</b> = SET button	
				*) 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)		Optional on request - Ex 2/22 <sup>3)</sup> - surface protection salt spray tested	

**Order code**  
**Hollow shaft**

**8.F5888** . **XX2X** . **212X**  
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 <sup>1)</sup>

**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 <sup>2)</sup>

\*) 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)

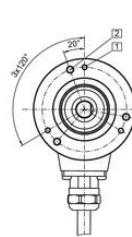
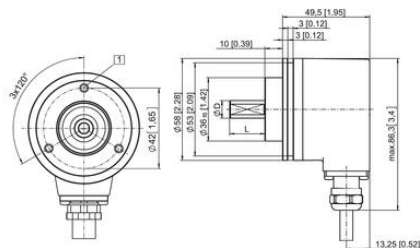
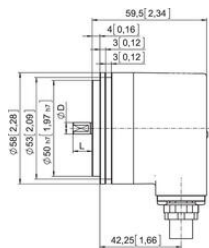
- 2 = no option
- 3 = SET button**

Optional on request

- Ex 2/22 <sup>3)</sup> (not for type of connection L, M)
- surface protection salt spray tested

## 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 CAN_L CAN_H CAN_GND			
		Abbreviation: 0 V +V CL CH CG				
		Cable colour: WH BN YE GN GY				
2	F	Bus IN	Signal: 0 V (power supply) +V 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 CAN_L CAN_H CAN_GND			
		Abbreviation: 0 V +V CL CH GY				
		Pin: 3 2 5 4 1				
2	E	Bus IN	Signal: 0 V (power supply) +V 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	+V	CAN_L	CAN_H	CAN_GND		
			Abbreviation:	power supply	power supply					
			Abbreviation:	0 V	+V	CL	CH	CG		
		Cable colour:	WH	BN	VE	GN	GY			
Interface	Type of connection	Function	2 x M12 connector							
2	F	Bus IN	Signal:	0 V	+V	CAN_L	CAN_H	CAN_GND		
			Abbreviation:	0 V	+V	CL	CH	CG		
			Pin:	3	2	5	4	1		
		Bus OUT	Signal:	0 V	+V	CAN_L	CAN_H	CAN_GND		
			Abbreviation:	0 V	+V	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	+V	CAN_L	CAN_H	CAN_GND		
			Abbreviation:	0 V	+V	CL	CH	CG		
			Pin:	3	2	5	4	1		