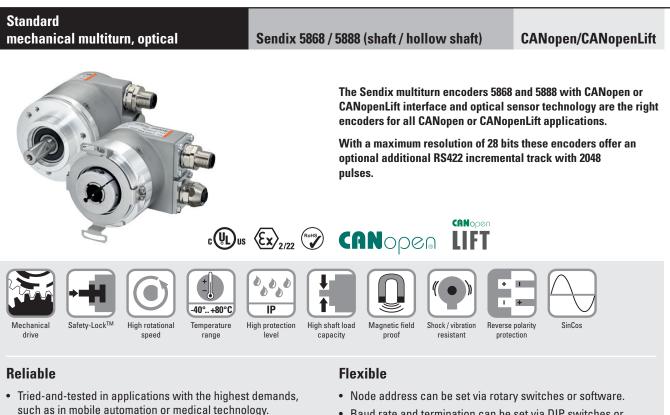
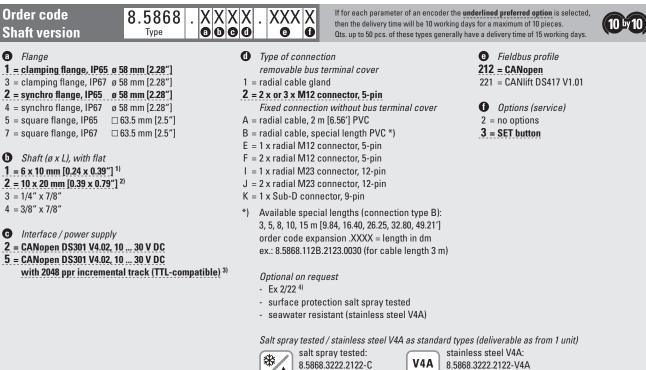
Ideal for use outdoors thanks to IP67 protection and wide

temperature range from -40 °C up to +80 °C.





- · Baud rate and termination can be set via DIP switches or software
- With bus terminal cover or fixed connection, as well as M12 connectors or cable connection.
- · Universal scaling function.





8.5868.3222.2122-C

8.5868.3222.2122-V4A 1.4404

- 1) Preferred type only in conjunction with flange type 2.
- 2) Preferred type only in conjunction with flange type 1.

- 3) Only in conjunction with connection type 2.
- 4) For the cable connection type, cable material PUR.

1



Standard mechanical multiturn,	optical	Sendix 5868	/ 5888 (shaft / hollow s	shaft) CAN	Nopen/CANopenLift
Order code 8 Hollow shaft	8.5888 . XX Type		If for each parameter of an encoder then the delivery time will be 10 work Qts. up to 50 pcs. of these types gene	ing days for a maximum of 10	pieces. (10 by 10)
 Flange Flange = with spring element, long, IF = with spring element, long, IF = with stator coupling, IP65 ø = with stator coupling, IP67 ø Blind hollow shaft (insertion depth max. 30 mm = ø 10 mm [0.39"] = ø 12 mm [0.47"] 5 = ø 14 mm [0.55"] 6 = ø 15 mm [0.59"] = ø 3/8" = ø 1/2" Interface / power supply = CANopen DS301 V4.02, 10 	267 65 mm [2.56"] 65 mm [2.56"] 63 mm [2.48"] 63 mm [2.48"] (1.18"]) 30 V DC 30 V DC	A = radial cable, 2 m B = radial cable, spe E = 1 x radial M12 cc F = 2 x radial M12 cc J = 1 x radial M23 cc J = 2 x radial M23 cc K = 1 x Sub-D conne *) Available specia 3, 5, 8, 10, 15 m [order code expa ex.: 85888.542B. Optional on requ - Ex 2/22 ² - surface protei	erminal cover and <u>onnector, 5-pin</u> <i>n without bus terminal cover</i> 1 (6.56') PVC ecial length PVC *) onnector, 5-pin onnector, 12-pin onnector, 12-pin ector, 9-pin 11 lengths (connection type B): 9.84, 16.40, 26.25, 32.80, 49.21'] Insion .XXXX = length in dm 2123.0030 (for cable length 3 m)	 Fieldbus pri 212 = CANopen 221 = CANlift D. Options (se 2 = no options 3 = SET button 	S417 V1.01
with 2048 ppr incremental t	rack (TTL-compatible) ¹⁷	Salt spray tested salt sp 8.5888	· · · · · · · · · · · · · · · · · · ·	d types (deliverable as fi stainless steel V4A: 3.5888.2422.2122-V4A	rom 1 unit)
		Salt spray tested salt sp 8.5888	//stainless steel V4A as standard pray tested: .2422.2122-C V4A	stainless steel V4A:	rom 1 unit) Order no
Mounting accessory for sha	ft encoders bellows coupling	Salt spray tested salt sp 8.5888	I/ stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C .2522.2122-C t 6 mm [0.24"]	stainless steel V4A:	
with 2048 ppr incremental to Mounting accessory for sha Supplung Mounting accessory for hol	ft encoders bellows coupling bellows coupling	salt spray tested salt spray tested salt sp 8.5888 8.5888 8.5888	// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C .2522.2122-C t 6 mm [0.24"] it 10 mm [0.39"]	stainless steel V4A:	Order no 8.0000.1102.0606
Mounting accessory for sha Supplung Mounting accessory for hol Forque pin, ø 4 mm or flange with spring element	ft encoders bellows coupling bellows coupling	 seawatel resist Salt spray tested salt sp salt sp s.5888 8.5888 8.5888 9 nm [0.75"] for shaft 0 19 mm [0.75"] for shaft Dimensions in mm [ind 	// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C .2522.2122-C t 6 mm [0.24"] it 10 mm [0.39"]	stainless steel V4A:	Order no 8.0000.1102.0606 8.0000.1102.1010
Mounting accessory for sha upplung Mounting accessory for hol orque pin, ø 4 mm or flange with spring element lange type 1 + 2)	ft encoders bellows coupling bellows coupling low shaft encoders with fixing thread	 sedwater resist Salt spray tested salt sp salt sp salt sp s.5888 8.5888 8.5888 9.19 mm [0.75"] for shaft ø 19 mm [0.75"] for shaft Dimensions in mm [indoce 	// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C .2522.2122-C t 6 mm [0.24"] it 10 mm [0.39"]	stainless steel V4A:	Order no 8.0000.1102.0606 8.0000.1102.1010 Order no
Mounting accessory for sha Cupplung Mounting accessory for hol Torque pin, ø 4 mm Or flange with spring element flange type 1 + 2) Cables and connectors	ft encoders bellows coupling bellows coupling low shaft encoders with fixing thread	a 19 mm [0.75"] for shaf a 19 mm [0.75"] for shaf a 19 mm [0.75"] for shaf bimensions in mm [in a 19 mm [0.75"] for shaf bimensions in mm [in bimensions in mm [in bimensions in mm [in] bimensions in] bimensions in]	// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C .2522.2122-C t 6 mm [0.24"] it 10 mm [0.39"]	stainless steel V4A:	Order no 8.0000.1102.0606 8.0000.1102.1010 Order no 8.0010.4700.0000
Mounting accessory for sha Supplung Mounting accessory for hol orque pin, ø 4 mm or flange with spring element lange type 1 + 2) Cables and connectors	ft encoders bellows coupling bellows coupling low shaft encoders with fixing thread slo2 slo2 slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sw7 (c slo2 sm7 (c slo2 sm7 (c slo2) sw7 (c) sw7 (c) s	 sedwater resist Salt spray tested salt sp salt sp s.5888 8.5888 8.5888 9 mm [0.75"] for shaft 0 in mm [0.75"] for shaft 0	// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C .t 6 mm [0.24"] it 10 mm [0.39"] ch]	stainless steel V4A: 3.5888.2422.2122-V4A	Order no 8.0000.1102.0606 8.0000.1102.1010 Order no Order no 8.0010.4700.0000 Order no
Mounting accessory for sha upplung Mounting accessory for hol orque pin, ø 4 mm or flange with spring element lange type 1 + 2) Cables and connectors reassembled cables	ft encoders bellows coupling bellows coupling low shaft encoders with fixing thread signal state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	 setwater resist Salt spray tested sable converte state 	// stainless steel V4A as standard oray tested: _2422.2122-C _2522.2122-C t 6 mm [0.24"] t 10 mm [0.39"] ch]	stainless steel V4A: 3.5888.2422.2122-V4A bus in bus out	Order no 8.0000.1102.0606 8.0000.1102.1010 Order no 8.0010.4700.0000 Order no 05.00.6091.A211.005 M
Mounting accessory for sha Cupplung	ft encoders bellows coupling bellows coupling low shaft encoders with fixing thread $\frac{8[0.3]}{5[0.2]}$ $\frac{1}{300}$	 Setwater resist Salt spray tested a 19 mm [0.75"] for shaft Dimensions in mm [in Dimensions in mm [in a 19 mm [0.75"] for shaft b 19 mm [0.75"] for shaft a 19 mm [0.75"] for shaft b 19 mm [0.75"] for shaft a 19 mm [0.75"] for shaft b 19 mm [0.75"] for shaft a 19 mm [0.75"] for shaft b 2.28 b 19 mm [0.75"] for shaft b 19 mm [0.75"] for shaft b 2.28 b 19 mm [0.75"] for shaft b 2.28 b 19 mm [0.75"] for shaft b 19 mm [0.75"] for shaft b 19 mm [0.75"] for shaft b 2.28 b 2.28<td>// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C t 6 mm [0.24"] it 10 mm [0.39"] ch] .5-pin, A coded, straight d, 5-pin, A coded, straight</td><td>stainless steel V4A: 3.5888.2422.2122-V4A bus in bus out bus in</td><td>Order no 8.0000.1102.0606 8.0000.1102.1010 Order no 0rder no 05.00.6091.A211.005N 05.00.6091.A411.005N 8.0000.5116.0000</td>	// stainless steel V4A as standard oray tested: .2422.2122-C .2522.2122-C t 6 mm [0.24"] it 10 mm [0.39"] ch] .5-pin, A coded, straight d, 5-pin, A coded, straight	stainless steel V4A: 3.5888.2422.2122-V4A bus in bus out bus in	Order no 8.0000.1102.0606 8.0000.1102.1010 Order no 0rder no 05.00.6091.A211.005N 05.00.6091.A411.005N 8.0000.5116.0000

Further Kübler accessories can be found at: kuebler.com/accessories Further Kübler cables and connectors can be found at: kuebler.com/connection-technology

Only in conjunction with connection type 2.
 For the cable connection type, cable material PUR.

2



Standard

mechanical multiturn, optical

Sendix 5868 / 5888 (shaft / hollow shaft)

CANopen/CANopenLift

Technical d	lata		
Mechanica	l characteristics		
Maximum spe	ed		
	IP65 up to 70 °C [1	-	9000 min ⁻¹ , 7000 min ⁻¹ (continuous)
	IP65 up t		7000 min ⁻¹ , 4000 min ⁻¹ (continuous)
	IP67 up to 70 °C [1	-	8000 min ⁻¹ , 6000 min ⁻¹ (continuous)
	IP67 up t	0 Tmax	6000 min ⁻¹ , 3000 min ⁻¹ (continuous)
Starting torqu	e - at 20 °C [68 °F]	IP65	< 0.01 Nm
		IP67	< 0.05 Nm
Mass moment	t of inertia		
	shaft v	ersion	4.0 x 10 ⁻⁶ kgm ²
	hollow shaft v	ersion	7.5 x 10 ⁻⁶ kgm ²
Load capacity	of shaft	radial	80 N
		axial	40 N
Weight	with bus terminal	cover	approx. 0.57 kg [20.11 oz]
	with fixed conn	ection	approx. 0.52 kg [18.34 oz]
Protection ac	c. to EN 60529		
	housin	g side	IP67
	sha	ft side	IP65, opt. IP67
Working temp	perature range		-40 °C +80 °C [-40 °F +176 °F] $^{1)}$
Material	shaft/hollow	r shaft	stainless steel
		flange	aluminum
	hc	ousing	zinc die-cast
		cable	PVC (PUR for Ex 2/22)
Shock resista	nce acc. to EN 6006	8-2-27	2500 m/s ² , 6 ms
Vibration resis	stance acc. to EN 600	68-2-6	100 m/s ² , 55 2000 Hz
Flectrical c	haracteristics		

Interface characteristics	CANope	n/CANopenLift
Resolution singleturn (MUR)		
	scalable default	1 65 536 (16 bit) 8 192 (13 bit)
Number of revolutions (NDR)		1 4 096 (12 bit) scalable only via the total resolution
Total resolution (TMR)		
	scalable default	1 11 200 100 100 (20 510)
Interface		CAN high-speed acc. to ISO 11898, Basic- and Full-CAN CAN specification 2.0 B
Protocol		CANopen profile DS406 V3.2 with manufacturer-specific add-ons or CANlift profile DS417 V1.1
Baud rate		10 1000 kbit/s can be set via DIP switches, software configurable
Node address		1 127 can be set via rotary switches, software configurable
Termination switchable		can be set via DIP switches, software configurable

Electrical characteristics Power supply 10 ... 30 V DC Power consumption (no load) max. 100 mA **Reverse polarity protection** yes of the power supply

Incremental track characteristics					
	RS422 (TTL-compatible)				
	max. +/- 20 mA				
HIGH	typ. 3.8 V				
LOW	typ. 1.3 V				
	yes ²⁾				
	2048 ppr				
	HIGH				

SET button (zero or defined value, option)

Protection against accidental activation.

Button can only be operated with a ball-pen or pencil.

Diagnostic LED (yellow)

LED is ON with the following fault conditions

Sensor error (internal code or LED error) too low voltage, over-temperature

Approvals	
UL compliant in accordance with	File no. E224618
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
ATEX Directive	2014/34/EU (for Ex 2/22 variants)
UKCA compliant in accordance with	
EMC Regulations	S.I. 2016/1091
RoHS Regulations	S.I. 2012/3032
UKEX Regulations	S.I. 2016/1107 (for Ex 2/22 variants)

2) Short circuit to 0 V or to output, only one channel at a time, power supply correctly applied.



Standard

mechanical multiturn, optical

Sendix 5868 / 5888 (shaft / hollow shaft)

CANopen/CANopenLift

General information about CANopen / CANopenLift

The CANopen encoders support the latest CANopen communication profile according to DS301 V4.02 . In addition, device specific profiles such as encoder profile DS406 V3.2 and DS417 V1.1 (for lift applications) are available

The following operating modes may be selected: Polled Mode, Cyclic Mode, Sync Mode. Moreover, scale factors, preset values, limit switch values and many other additional parameters can be programmed via the CAN bus.

When switching the device on, all parameters are loaded from an EEPROM, where they were saved previously to protect them against power-failure.

The following output values may be combined in a freely variable way as PDO (PDO mapping): position, speed, acceleration as well as the status of the working area.

As competitively priced alternatives, encoders are also available with a connector or a cable connection, where the device address and baud rate can be changed and configured by means of the software. The models with bus terminal cover and integrated T-coupler allow for extremely simple installation: the bus and power supply can be easily connected via M12 connectors. The device address can be set via 2 rotary hex switches. Furthermore, another DIP switch allows for the setting of the baud rate and switching on a termination resistor. Three LEDs located on the back indicate the operating or fault status of the CAN bus, as well as the status of an internal diagnostic.

Universal Scaling Function

At the end of the physical resolution of an encoder, when scaling is active, an error appears if the division of the physical limit (GP_U) by the programmed total resolution (TMR) does not produce an integer.

The Universal Scaling Function remedies this problem.

CANopen communication profile DS301 V4.02

- Among others, the following functionality is integrated.
- · Class C2 functionality.
- NMT slave.
- · Heartbeat protocol.
- · High resolution sync protocol.
- · Identity object.
- Error behavior object. Variable PDO mapping.
- · Self-start programmable (power on to operational).
- 3 Sending PDO's. Node address, baud rate and CANbus
- Programmable termination.

CANopen Encoder Profile DS406 V3.2

The following parameters can be programmed:

- · Event mode.
- Units for speed selectable (steps/sec or min⁻¹).
- Factor for speed calculation (e.g. circumference of measuring wheel).
- Integration time for the speed value from 1 ... 32.
- 2 working areas with 2 upper and lower limits and the corresponding output states.
- Variable PDO mapping for position, speed, work area status.
- Extended failure management for position sensing with integrated temperature control.
- User interface with visual display of bus and failure status 3 LED's.
- Optional 32 CAMs programmable.
- · Customer-specific memory 16 Bytes.

CANopen Lift Profile DS417 V1.1

Among others, the following functionality is integrated:

- Car position unit.
- 2 virtual devices.
- 1 virtual device delivers the position in absolute measuring steps (steps).
- 1 virtual device delivers the position as an absolute travel information in mm.
- Lift number programmable.
- Independent setting of the node address in relation with the CAN identifier.
- Factor for speed calculation (e.g. measuring wheel periphery).
- Integration time for speed value of 1...32.
- 2 work areas with 2 upper and lower limits and the corresponding output states
- Variable PDO mapping for position, speed, acceleration, work area status.
- · Extended failure management for position sensing with integrated temperature control.
- User interface with visual display of bus and failure status 3 LED's.

"Watchdog controlled" device.

All profiles stated here: Key-features The object 6003h "Preset" is assigned to an integrated key, accessible from the outside.



Sta	nda	rd		
	_	_	-	

mechanical multiturn, optical

Sendix 5868 / 5888 (shaft / hollow shaft)

CANopen/CANopenLift

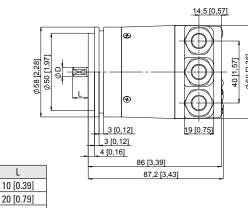
Terminal assignment

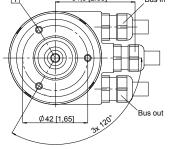
Torrinina ao	5											
Interface	Type of connection	Cable gland (bu	s terminal c	over with te	erminal box)						
			Bus OUT Bus IN									
2, 5	1	Signal:	CAN_GND	CAN_L	CAN_H	0 V	+V power supply	0 V	+V power supply	CAN_L	CAN_H	CAN_GND
		Abbreviation:	CG	CL	СН	0 V	+V	0 V	+V	CL	СН	CG
Interface	Type of connection	Cable (isolate u	nused core:	s individuall	v before ini	tial start-up)					
	.,,,				Bus IN		,					
0.5	A D	Signal:	0 V	+V	CAN_L	CAN_H	CAN_GND	-				
2, 5	А, В		power supply									
		Core color:	WH	BN	YE	GN	GY					
Interface	Type of connection	2 x M12 connec	tor, 5-pin (3	s x M12 con	nector with	interface 5)					
					Bus OUT	-	1	-				
		Signal:	0 V power supply	+V power supply	CAN_L	CAN_H)	CAN_GND		(053)	
		Pin:	3	2	5	4	1			4		
2, 5	2, F			•	Bus IN		•					
		Signal:	0 V	+V	CAN_L	CAN_H	CAN_GND		()	
			power supply	power supply				-	(9	
		Pin:	3	2	5	4	1					
					remental tr	1	1	-				
5	2	Signal:	A	Ā	В	B	0 V		(351	1)	
		Pin:	1	2	3	4	5		(4	9	
Interface	Type of connection	1 x M12 connec	tor, 5-pin		D INI							
		0'	0.1/		Bus IN	CANLU		-	/		\ \	
2, 5	E	Signal:	0 V power supply	+V power supply	CAN_L	CAN_H	CAN_GND		((3 5 0)))	
		Pin:	3	2	5	4	1				/	
Interface	Type of connection	2 x M23 connec	tor 12-nin									
Interface		2 X M20 COMIC	loi, iz piii		Bus OUT							
		Signal:	0 V	+V	CAN_L	CAN_H	CAN_GND	-				
				power supply						1 9 8		
2 5	J	Pin:	10	12	2	7	3]	$X = \begin{pmatrix} 2 \\ 3 \\ 3 \end{pmatrix}$		7	
2, 5	J				Bus IN				X 3	10 12 11 6		
		Signal:	0 V power supply	+V power supply	CAN_L	CAN_H	CAN_GND			4 5		
1		Pin:	10	12	2	7	3					
Interface	Type of connection	1 x M23 connec	tor, 12-pin									
					Bus IN							
2, 5	I	Signal:	0 V power supply	+V power supply	CAN_L	CAN_H	CAN_GND		2	1 9 8	7	
		Pin:	10	12	2	7	3		3	10 12 11 6		
										4.5	/	
Interface	Type of connection	Sub-D connecto	n 9-nin	<u> </u>	<u> </u>	1	<u> </u>	1				
IIILEITAUE	Type of connection		5, 3-pin		Bus IN							
2, 5	К	Signal:	0 V	+V	CAN_L	CAN_H	CAN_GND	-		2 3 4 6 7 8	9	
2,5				power supply		_	-	-				
		Pin:	6	9	2	7	3					



Standard mechanical multiturn, optical **CANopen/CANopenLift** Sendix 5868 / 5888 (shaft / hollow shaft) Dimensions shaft version, with removable bus terminal cover Dimensions in mm [inch] Clamping flange, ø 58 [2.28] 50 [1.97] Flange type 1 and 3 21 Bus in (drawing with 2 x M12 connector) B 1 3 x M3, 6 [0.24] deep φ58 [2.28] φ53 [2.12] Ø36 [1.41] [2.36] Ø48 [1.89] 57] 2 3 x M4, 8 [0.32] deep 40 [1. Ø60 Ð 37120 Bus out 10 [0.39] 14,5 [0.57] <u>).391</u> <u>3 [0.12]</u> <u>3 [0.12]</u> <u>3 [0.12]</u> 30 [1.18] 76 [3.0] D Fit L 77,2 [3.03] 6 [0.24] h7 10 [0.39] f7 10 [0.39] 20 [0.79] 1/4" h7 7/8" h7 3/8" 7/8' Synchro flange, ø 58 [2.28] (drawing with cable) 14,5 [0,57] 51,5 [2.03] 1 Bus in 1 3 x M4, 6 [0.24] deep E 40 [1,57] Ø60 [2,36]

Flange type 2 and 4





f7 10 [0.39] h7 1/4" 7/8" h7 3/8" 7/8'

Fit

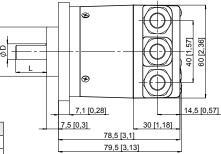
h7

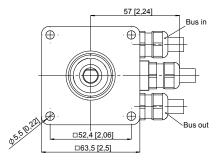
Square flange, 🗌 63.5 [2.5] Flange type 5 and 7 (drawing with cable)

D

6 [0.24]

D





6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"

Fit

Ø 31, 75 h7[1,25]

L

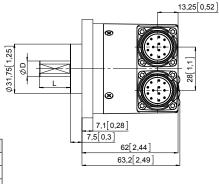


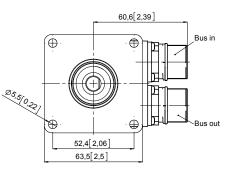
Standard mechanical multiturn, optical Sendix 5868 / 5888 (shaft / hollow shaft) **CANopen/CANopenLift** Dimensions shaft version, with fixed connection Dimensions in mm [inch] Synchro flange, ø 58 [2.28] 60,6[2,39] 1 Flange type 2 and 4 (drawing with M23 connector) ø 1 3 x M4, 6 [0.24] deep Э Ø 50 [1,97 Ø58 [2,28] φD Н B v20° 3 [0,12] 13,25[0,52] Ø42 [1,65] 3 [0,12] 4 [0,16] 69,5[2,74] D Fit L 70,7[2,78] 10 [0.39] 6 [0.24] h7 f7 10 [0.39] 20 [0.79] 1/4" h7 7/8" h7 3/8" 7/8' Synchro flange, ø 58 [2.28] Flange type 2 and 4 (drawing with Sub-D connector) 41,7[1,64] 14,25[0,56] 1 1 3 x M4, 6 [0.24] deep 2 2 2 x 4/40 UNC; 3.0 [0.12] deep \odot 25[0,98] **558 [2,28]** 88 550 5 8 3 [0,12] 20 Ø42 [1,65] _____3 [0,12] _____4 [0,16] 69,5[2,74]

70,7[2,78]

D	Fit	L
6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"

Square flange, C 63.5 [2.5] Flange type 5 and 7 (drawing with 2 x M23 connector)





D	Fit	L
6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"





Standard mechanical multiturn, optical

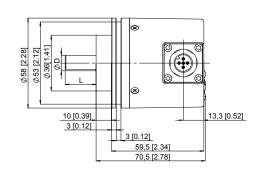
Sendix 5868 / 5888 (shaft / hollow shaft)

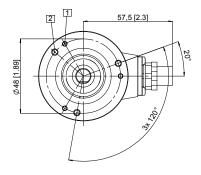
CANopen/CANopenLift

Dimensions shaft version, with fixed connection Dimensions in mm [inch]

Clamping flange, ø 58 [2.28] Flange type 1 and 3 (drawing with 1 x M12 connector)

1 3 x M3, 6 [0.24] deep 2 3 x M4, 8 [0.32] deep



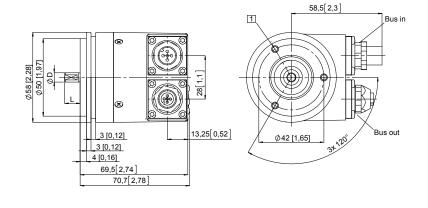


D	Fit	L
6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"

Synchro flange, ø 58 [2.28] Flange type 2 and 4

(drawing with 2 x M12 connector)

1 3 x M4, 8 [0.32] deep

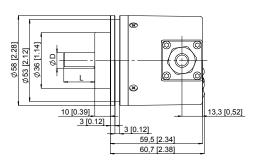


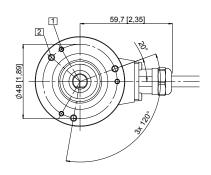
D	Fit	L
6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"

Clamping flange, ø 58 [2.28] Flange type 1 and 3

(drawing with cable)

1 3 x M3, 6 [0.24] deep 2 3 x M4, 8 [0.32] deep





D	Fit	L
6 [0.24]	h7	10 [0.39]
10 [0.39]	f7	20 [0.79]
1/4"	h7	7/8"
3/8"	h7	7/8"

8



Standard

mechanical multiturn, optical

Sendix 5868 / 5888 (shaft / hollow shaft)

CANopen/CANopenLift

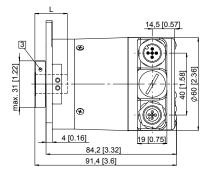
Dimensions hollow shaft version (blind hollow shaft), with removable bus terminal cover Dimensions in mm [inch]

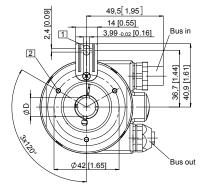
Flange with spring element, long Flange type 1 and 2

(drawing with 2 x M12 connector)

- 1 Slot spring element recommendation: torque pin DIN 7, ø 4 [0.16]
- 2 3 x M3, 5.5 [0.22] deep
- 3 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		





Flange with stator coupling, ø 63 [2.48] Flange type 5 and 6

Pitch circle diameter for fixing screws 63 [2.48] (drawing with cable)

1 Recommended torque for the clamping ring 0.6 Nm

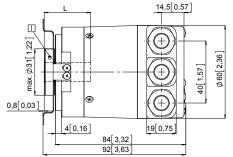
D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		

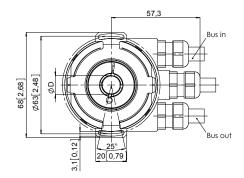
Flange with stator coupling, ø 65 [2.56] Flange type 3 and 4

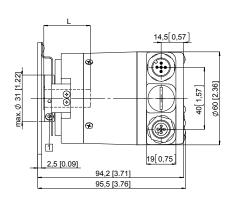
Pitch circle diameter for fixing screws 65 [2.56] (drawing with 2x M12 connector)

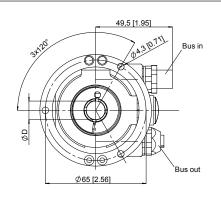
1 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		











Standard mechanical multiturn, optical

Sendix 5868 / 5888 (shaft / hollow shaft)

CANopen/CANopenLift

Dimensions hollow shaft version (blind hollow shaft), with fixed connection Dimensions in mm [inch]

Flange with spring element, long Flange type 1 and 2 (drawing with M23 connector)

- 1 Slot spring element
- recommendation: torque pin DIN 7, ø 4 [0.16]
- 2 3 x M3, 5.5 [0.22] deep
- 3 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		

Flange with spring element, long Flange type 1 and 2

(drawing with Sub-D connector)

- 1 Slot spring element recommendation: torque pin DIN 7, ø 4 [0.16]
- 2 3 x M3, 5.5 [0.22] deep
- 3 2 x 4/40 UNC; 3.0 [0.12] deep
- 4 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		

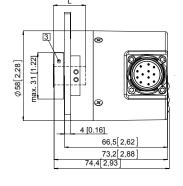
Flange with stator coupling, ø 65 [2.56] Flange type 3 and 4

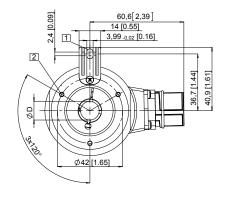
Pitch circle diameter for fixing screws 65 [2.56] (drawing with 2 x M23 connector)

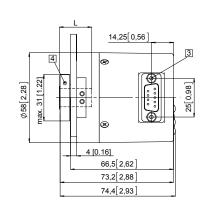
1 Recommended torque for the clamping ring 0.6 Nm

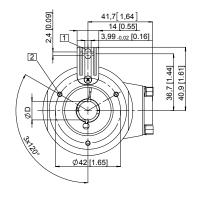
D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
I - insertion donth may blind ballow shaft		

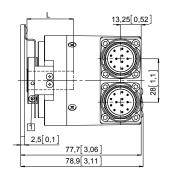
insertion depth n iax. blind hollow shaft | L =

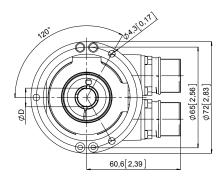














Standard

mechanical multiturn, optical

Sendix 5868 / 5888 (shaft / hollow shaft)

CANopen/CANopenLift

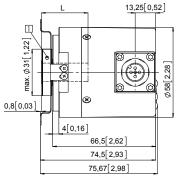
Dimensions hollow shaft version (blind hollow shaft), with fixed connection Dimensions in mm [inch]

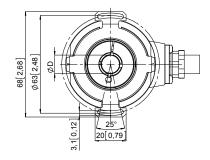
Flange with stator coupling, ø 63 [2.48] Flange type 5 and 6

Pitch circle diameter for fixing screws 63 [2.48] (drawing with M12 connector)

1 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		





Flange with spring element, long Flange type 1 and 2

(drawing with 2 x M12 connector)

- 1 Slot spring element recommendation: torque pin DIN 7, ø 4 [0.16]
- 2 3 x M3, 5.5 [0.22] deep
- 3 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max. blind hollow shaft		

Flange with stator coupling, ø 65 [2.56] Flange type 3 and 4

Pitch circle diameter for fixing screws 65 [2.56] (drawing with cable)

1 Recommended torque for the clamping ring 0.6 Nm

D	Fit	L
10 [0.39]	H7	30 [1.18]
12 [0.47]	H7	30 [1.18]
14 [0.55]	H7	30 [1.18]
15 [0.59]	H7	30 [1.18]
3/8"	H7	30 [1.18]
1/2"	H7	30 [1.18]
L = insertion depth max, blind hollow shaft		

