

Incremental encoders

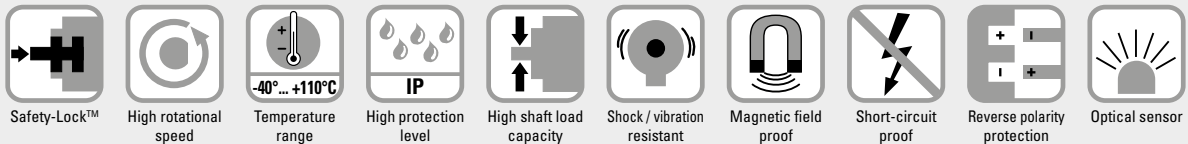
Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Highest performance and flexibility.

The new Sendix K58I Performance-Line encoder is particularly impressive due to the possibility of programming different parameters such as resolution, counting direction or zero pulse. The settings can be made before or after installation and enable a fast, direct response to changing or new requirements without having to replace the encoder with a new one.

Other optimized features include a higher temperature range and a resolution of up to 36,000 pulses per revolution.



Features and benefits

- Encoders can be customized quickly and easily at any time**
 Individually configurable parameters:
 - Pulse numbers up to 36,000 ppr
 - HTL or TTL output
 - Counting direction
 - Zero pulse settings (length, links)
- High accuracy and reliability**
 State-of-the-art sensor technology with resolutions up to 36,000 ppr.
- Prepared for the toughest operating conditions and a wide range of external influences**
 - Temperature range from -40 °C up to +110 °C
 - Protection class up to a maximum of IP67
 - Optimized EMC shielding concept
 - Advanced Safety Lock technology
- Seamless integration into modern, digital networks**
 Prepared for use with digital type plate and digital twin for monitoring and maintaining machines and for a wide range of documentation tasks.
 Optimizing processes and increasing efficiency.

Incremental encoders

Standard optical, programmable		Sendix K58I-PR (shaft / hollow shaft)						Push-pull / RS422								
Order code Shaft version		K58I . 0 PR XX . XXXXX . 2 XX XX XX . XX X X X . XXXX . XX														
		Type			a	b	c	d	e	f	g	h	i	k	l	m
a Interface																
PP = push-pull																
RS = RS422																
b Pulse rate (1 ... 36000 ppr)																
XXXXX = 00001 ... 36000																
c Supply voltage																
2 = 5 ... 30 V DC																
d Version																
S1 = Shaft, with flat																
(not in combination with shaft ø 11 mm i = 11)																
S3 = Shaft, with feather keyway and enclosed feather key																
(only in combination with shaft ø 11 mm i = 11)																
e Flange																
C5 = clamping flange																
S5 = synchro flange																
Q5 = square flange, □ 63.5 mm [2.5"]																
E5 = Euro flange																
V5 = servo flange																
i Shaft (ø x L), with flat																
(only in combination with version d = S1)																
06 = ø 6 x 10 mm [0.24 x 0.39"]																
08 = ø 8 x 15 mm [0.32 x 0.59"]																
10 = ø 10 x 20 mm [0.39 x 0.79"]																
12 = ø 12 x 20 mm [0.47 x 0.79"]																
1A = ø 1/4 x 5/8" (6.35 x 15.875 mm)																
1B = ø 1/4 x 7/8" (6.35 x 22.225 mm)																
2A = ø 3/8 x 5/8" (9.525 x 15.875 mm)																
2B = ø 3/8 x 7/8" (9.525 x 22.225 mm)																
Shaft (ø x L), with feather keyway and enclosed feather key																
(only in combination with version d = S3)																
11 = ø 11 x 33 mm [0.43 x 1.30"]																
g Type of protection																
65 = IP65																
6A = IP66/IP67																
h Position connection																
A = axial (not in combination with type of connection k = D, E, J)																
R = radial																
i Type of connection																
1 = cable, PVC (open-ended or with connector on the cable)																
2 = cable, TPE (only open-ended)																
3 = cable, PUR (only open-ended) – only for variants with Ex 2/22																
C = connector on the housing																
k Cable / connector type																
1 = cable, open ended																
2 = M12 connector, 8-pin																
5 = M12 connector, 8-pin																
(special assignment, s.p. 7, not with type of connection cable i = 1, 2, 3)																
3 = M12 connector, 5-pin																
6 = M12 connector, 5-pin																
(special assignment, s.p. 7, not with type of connection cable i = 1, 2, 3)																
4 = M23 connector, 12-pin																
D = MIL connector, 7-pin																
(not with type of connection cable i = 1, 2, 3)																
E = MIL connector, 10-pin																
(not with type of connection cable i = 1, 2, 3)																
J = MIL connector, 10-pin																
(special assignment, s.p. 7, not with type of connection cable i = 1, 2, 3)																
l Cable length (in dm)																
0010 = 1 m [3.28']																
0020 = 2 m [6.56']																
0030 = 3 m [9.84']																
0050 = 5 m [13.12']																
0100 = 10 m [32.80']																
m Optional: special formats for output signals																
XX = see page 8																
Optional on request																
- Ex 2/22																
only for variants with PUR cable or with connector on the housing /																
only for variants with type of protection IP66/IP67																
- Surface protection salt spray tested																
- Other cable lengths																
Stock types:																
K58I.0PRPP.01024.2S1C510.65RC2																

Incremental encoders

[illegible]

1) In version **(d)** = H1 and C1 only compatible with hollow shafts ≤ 15 mm.
In version **(d)** = H2 and C2 only compatible with hollow shafts < 14 mm.

2) In version **(d)** = H1 and C1 only compatible with hollow shafts > 15 mm.
In version **(d)** = H2 only compatible with hollow shafts ≥ 14 mm.

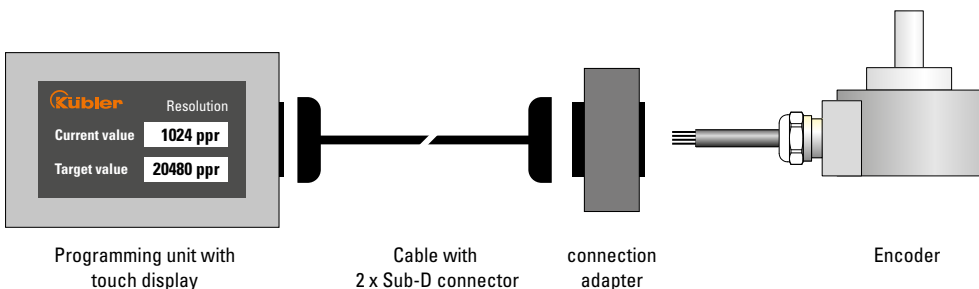
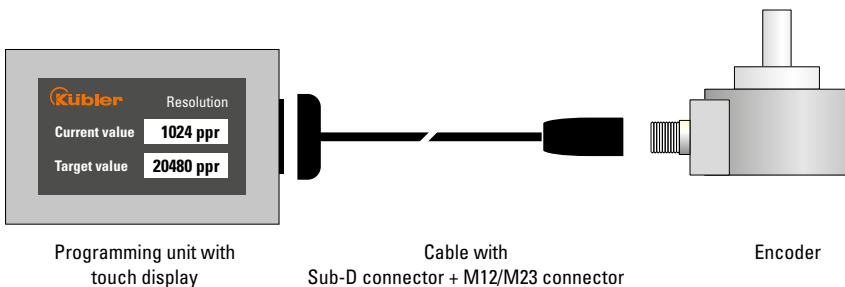
Incremental encoders

Standard optical, programmable		Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422	
Mounting accessory for shaft encoders			Order no.	
Coupling	bellows coupling ø 19 mm [0.75"] for shaft 6 mm [0.24"]		8.0000.1102.0606	
	bellows coupling ø 19 mm [0.75"] for shaft 10 mm [0.39"]		8.0000.1102.1010	
Mounting accessory for hollow shaft encoders			Order no.	
Torque pin, ø 4 mm			8.0010.4700.0000	
for flange with spring element (mounting type E = 15 and 75)				
Insulation / reduction insert for hollow shaft ø 15 mm	Thermal and electrical isolation of the encoders (Temperature range -40 °C ... +115 °C [-40 °F ... +239 °F]) Insulation inserts prevent currents from passing through the encoder bearings. These currents can occur when using inverter controlled three-phase or AC vector motors and considerably shorten the service life of the encoder bearings. In addition the encoder is thermally isolated as the plastic does not transfer the heat to the encoder.		Insulation insert	
			ø D1	
			6 mm	8.0010.4021.0000
			8 mm	8.0010.4020.0000
			10 mm	8.0010.4023.0000
			12 mm	8.0010.4025.0000
			1/4" (6.35 mm)	8.0010.4022.0000
			3/8" (9.525 mm)	8.0010.4024.0000
1/2" (12.7 mm)	8.0010.4026.0000			
Also available pre-assembled as version U = H2 or C2				
Insulation / reduction insert for hollow shaft ø 1"			Insulation insert	
			ø D1	
			14 mm	8.0010.4076.0000
			15 mm	8.0010.4077.0000
			16 mm	8.0010.4079.0000
			18 mm	8.0010.4084.0000
			20 mm	8.0010.4082.0000
			1/2" (12.7 mm)	8.0010.4069.0000
5/8" (15.875 mm)	8.0010.4078.0000			
3/4" (19.05mm)	8.0010.4081.0000			
7/8" (22.225 mm)	8.0010.4083.0000			
Cables and connectors			Order no.	
Preassembled cables	M23 female connector with coupling nut, 12-pin,cw single ended 2 m TPE Kabel		8.0000.6E01.0002	
	M12 female connector with coupling nut, 5-pin, A coded, straight single ended 2 m [6.56"] PVC cable (only suitable up to max. +80°C)		05.00.6081.2211.002M	
	M12 female connector with coupling nut, 8-pin,A coded, straight single ended 2 m [6.56"] PVC cable (only suitable up to max. +80°C)		05.00.6041.8211.002M	
Connectors	M12 female connector with coupling nut, 5-pin, A coded, straight (plastic)		05.B-8151-0/9	
	M12 female connector with coupling nut, 8-pin,A coded, straight (metal)		05.CMB 8181-0	
	M23 female connector with coupling nut, 12-pin,cw		8.0000.5012.0000	

Further Kübler accessories can be found at: kuebler.com/accessories

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

Incremental encoders

Standard optical, programmable		Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422	
Programming unit			Order no.	
Programming unit with touch display EP1000 	Programming device for PC-independent use, even in the field		8.0010.9000.1000 ¹⁾	
	Dimensions	136 x 84 x 38 mm		
	Connection	Sub-D female connector		
	Scope of delivery	Programming unit, plug-in power supply unit		
Accessories for programming - for encoders with cable connection			Order no.	
				
	Programming unit with touch display	Cable with 2 x Sub-D connector	connection adapter	Encoder
Connection cable	For connecting programming unit with the connection adapter Sub-D male connector, 15-pin Sub-D female connector, 15-pin 2 m [6.56'] PVC cable		05.00.60J1.L7L8.002M	
Connection adapter	For connecting the encoder Sub-D male connector, 15-pin Spring terminal, 3-pin		8.0010.9000.0100	
Accessories for programming - for encoders with connector			Order no.	
				
	Programming unit with touch display	Cable with Sub-D connector + M12/M23 connector	Encoder	
Connection cable	For encoders with M12 connector, 8-pin Sub-D male connector, 15-pin M12 female connector with coupling nut, 8-pin, A coded, straight 2 m [6.56'] PVC cable		8.0000.6000.0002.0112	
	For encoders with M12 connector, 5-pin Sub-D male connector, 15-pin M12 female connector with coupling nut, 5-pin, A coded, straight 2 m [6.56'] PVC cable		8.0000.6000.0002.0113	
	For encoders with M23 connector, 12-pin Sub-D male connector, 15-pin M23 female connector with coupling nut, 12-pin, straight 2 m [6.56'] PVC cable		8.0000.6000.0002.0114	

1) Stock types

Incremental encoders

Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Technical data

Mechanical characteristics		
Maximum speed	IP65	12000 min ⁻¹
		6000 min ⁻¹ (continuous)
	IP66/IP67	6000 min ⁻¹
		3000 min ⁻¹ (continuous)
variants with Ex 2/22 (IP66/IP67) 3000 min ⁻¹		
Mass moment of inertia	shaft	approx. 4.0 ... 4.3 x 10 ⁻⁶ kgm ² (depending on shaft version)
	hollow shaft ≤ ø 15 mm	approx. 4.3 ... 5.8 x 10 ⁻⁶ kgm ² (depending on hollow shaft version)
	hollow shaft > ø 15 mm	approx. 26.6 ... 35.6 x 10 ⁻⁶ kgm ² (depending on hollow shaft version)
Starting torque at 20 °C [68 °F]	for shaft and hollow shaft ≤ ø 15 mm	< 0.01 Nm with IP65
		< 0.02 Nm with IP66/IP67
	for hollow shaft > ø 15 mm	< 0.02 Nm with IP65
		< 0.06 Nm with IP66/IP67
Shaft load capacity	radial	100 N
	axial	50 N
Weight approx. 0.4 kg [14.11 oz]		
Protection acc. to EN 60529		
without shaft seal IP65		
with shaft seal IP66/IP67		
Material shaft stainless steel		
Shock resistance acc. to EN 60068-2-27 3000 m/s ² , 6 ms		
Vibration resistance acc. to EN 60068-2-6		
5 ... 8.7 Hz ±0.35 mm		
8.7 ... 200 Hz 30 m/s ²		
200 ... 2000 Hz 300 m/s ²		

Working temperature range with connector on the housing	
-40 °C ... +110 °C [-40 °F ... +230 °F]	
Working temperature range with PVC cable	
fixed cable installation	-30 °C ... +80 °C [-22 °F ... +176 °F]
flexible cable use	-5 °C ... +80 °C [+23 °F ... +176 °F]
Working temperature range with TPE cable	
fixed cable installation	-40 °C ... +110 °C [-40 °F ... +230 °F]
flexible cable use	-25 °C ... +110 °C [-13 °F ... +230 °F]
Working temperature range with PUR cable	
fixed cable installation	-40 °C ... +80 °C [-40 °F ... +176 °F]
flexible cable use	-20 °C ... +80 °C [-4 °F ... +176 °F]

Approvals		
UL compliant in accordance with	File no. E224618	
CE compliant in accordance with	EMC Directive	2014/30/EU
	RoHS Directive	2011/65/EU

Electrical characteristics			
Output circuit	RS422 (TTL compatible)		Push-pull (HTL/TTL universal)
	Order code ②	RS	PP
Supply voltage		5 ... 30 V DC	5 ... 30 V DC
Power consumption (no load)		typ. 40 mA / max. 90 mA	typ. 40 mA / max. 90 mA
Permissible load / channel		max. +/- 20 mA	max. +/- 20 mA
Pulse frequency		max. 300 kHz	max. 300 kHz ¹⁾
Signal level	HIGH	min. 2.5 V	min. 2.5 V
	LOW	max. 0.5 V	max. 0.5 V
Rising edge time t _r		max. 200 ns	max. 200 ns
Falling edge time t _f		max. 200 ns	max. 200 ns
Short circuit proof outputs ²⁾		yes ³⁾	yes ³⁾
Reverse polarity protection of the supply voltage		yes	yes

1) Max. recommended cable length 30 m [98.43'].

2) If supply voltage correctly applied.

3) Only one channel allowed to be shorted-out:
at +V= 5 V DC, short-circuit to channel, 0 V, or +V is permitted.
at +V= 5 ... 30 V DC, short-circuit to channel or 0 V is permitted.

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Terminal assignment

Interface	Cable / connector type	Cable PVC + PUR (isolate unused cores individually before initial start-up)											
PP, RS	1 (type of connection 1 + 3)	Signal:	0 V	+V	0 V _{sens}	+V _{sens}	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$
		Core color:	WH	BN	GY/PK	RD/BU	GN	YE	GY	PK	BU	RD	shield

Interface	Cable / connector type	Cable TPE (isolate unused cores individually before initial start-up)											
PP, RS	1 (type of connection 2)	Signal:	0 V	+V	0 V _{sens}	+V _{sens}	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$
		Core color:	WH 0,5 mm ²	BN 0,5 mm ²	WH	BN	GN	YE	GY	PK	BU	RD	shield

Interface	Cable / connector type	M12 connector, 5-pin							
PP, RS	3	Signal:	0 V	+V	A	B	0	$\perp$	
		Pin:	1	2	3	4	5	PH	

Interface	Cable / connector type	M12 connector, 5-pin (special assignment)							
PP, RS	6	Signal:	0 V	+V	A	B	0	$\perp$	
		Pin:	3	1	4	2	5	PH ¹⁾	

Interface	Cable / connector type	M12 connector, 8-pin										
PP, RS	2	Signal:	0 V	+V	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$	
		Pin:	1	2	3	4	5	6	7	8	PH	

Interface	Cable / connector type	M12 connector, 8-pin (special assignment)										
PP, RS	5	Signal:	0 V	+V	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$	
		Pin:	7	2	1	3	4	5	6	8	PH ¹⁾	

Interface	Cable / connector type	M23 connector, 12-pin											
PP, RS	4	Signal:	0 V	+V	0 V _{sens}	+V _{sens}	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$
		Pin:	10	12	11	2	5	6	8	1	3	4	PH

Interface	Cable / connector type	MIL connector, 10-pin										
PP, RS	E	Signal:	0 V	+V	+V _{sens}	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$
		Pin:	F	D	E	A	G	B	H	C	I	J

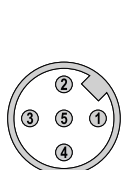
Interface	Cable / connector type	MIL connector, 10-pin (special assignment)										
PP, RS	J	Signal:	0 V	+V	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	$\perp$	
		Pin:	F	D	A	H	B	I	C	J	G	

Interface	Cable / connector type	MIL connector, 7-pin							
PP, RS	D	Signal:	0 V	+V	+V _{sens}	A	B	0	$\perp$
		Pin:	F	D	E	A	B	C	PH

+V : Supply voltage encoder +V DC
 0 V : Supply voltage encoder ground GND (0 V)
 0 V_{sens} / +V_{sens} : Using the sensor outputs of the encoder, the voltage present can be measured and if necessary increased accordingly..

A, $\bar{A}$: Incremental output channel A
 B, $\bar{B}$: Incremental output channel B
 0, $\bar{0}$: Reference signal
 PH $\perp$: Shield is connected to the connector housing

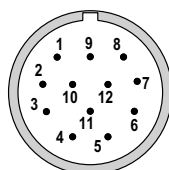
Top view of mating side, male contact base



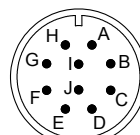
M12 connector, 5-pin



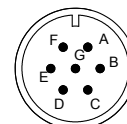
M12 connector, 8-pin



M23 connector, 12-pin



MIL connector, 10-pin



MIL connector, 7-pin

Incremental encoders

Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Special formats for output signals

A leading B when the shaft is rotated clockwise with the flange side facing you.			B leading A when the shaft is rotated clockwise with the flange side facing you.		
Order code			Order code		
Standard No specification in the order code	Z at A / B = 1 / 1 Z is 90° wide		B0	Z at A / B = 1 / 1 Z is 90° wide	
A1	Z at A / B = 1 / 0 Z is 90° wide		B1	Z at A / B = 1 / 0 Z is 90° wide	
A2	Z at A / B = 0 / 1 Z is 90° wide		B2	Z at A / B = 0 / 1 Z is 90° wide	
A3	Z at A / B = 0 / 0 Z is 90° wide		B3	Z at A / B = 0 / 0 Z is 90° wide	
A4	Z at A = 1 Z is 180° wide		B4	Z at A = 1 Z is 180° wide	
A5	Z at A = 0 Z is 180° wide		B5	Z at A = 0 Z is 180° wide	
A6	Z at B = 1 Z is 180° wide		B6	Z at B = 1 Z is 180° wide	
A7	Z at B = 0 Z is 180° wide		B7	Z at B = 0 Z is 180° wide	
A8	Z at A Z is 360° wide		B8	Z at A Z is 360° wide	
A9	Z at B Z is 360° wide		B9	Z at B Z is 360° wide	

Incremental encoders

Standard
optical, programmable

Sendix K58I-PR (shaft / hollow shaft)

Push-pull / RS422

Dimensions shaft version

Dimensions in mm [inch]

Clamping flange, Ø 58 [2.28]

Connection, axial

Connector on the housing

M12 connector, 5- or 8-pin

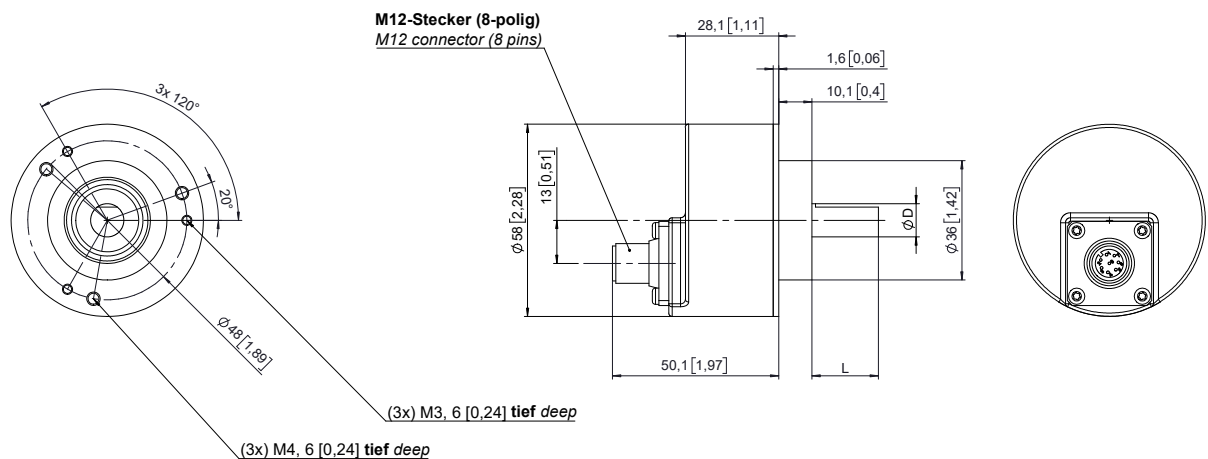
flange type **C** = C5

position connection **I** = A

type of connection **I** = C

connector type **k** = 2 or 3

ØD	L
6 [0,24]	10 [0,39]
8 [0,32]	15 [0,59]
10 [0,39]	20 [0,79]
12 [0,47]	
1/4"	5/8"
3/8"	
1/4"	7/8"
3/8"	
Passung für D: f7 fit for D: f7	



Incremental encoders

Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Dimensions shaft version

Dimensions in mm [inch]

Servo flange, ø 58 [2.28]

Connection, axial

Connector on the housing

M23 connector, 12-pin

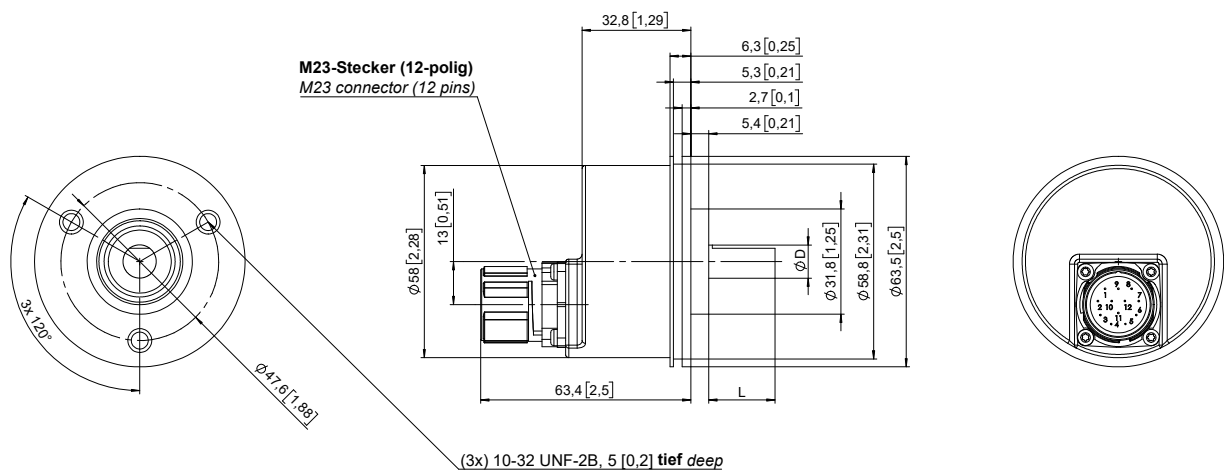
flange type **Ⓔ** = V5

position connection **Ⓐ** = A

type of connection **Ⓒ** = C

connector type **Ⓚ** = 4

ØD	L
6 [0,24]	10 [0,39]
8 [0,32]	15 [0,59]
10 [0,39]	20 [0,79]
12 [0,47]	
1/4"	5/8"
3/8"	
1/4"	7/8"
3/8"	
Passung für D: f7 fit for D: f7	



Incremental encoders

**Standard
optical, programmable**

Sendix K58I-PR (shaft / hollow shaft)

Push-pull / RS422

Dimensions hollow shaft version

Dimensions in mm [inch]

Spring element, long

R 35.5 ... 37.9 [1.40 ... 1.49]

Connection, radial

Connector on the housing

M12 connector, 5- or 8-pin

mounting type **e** = 15

position connection **h** = R

type of connection **i** = C

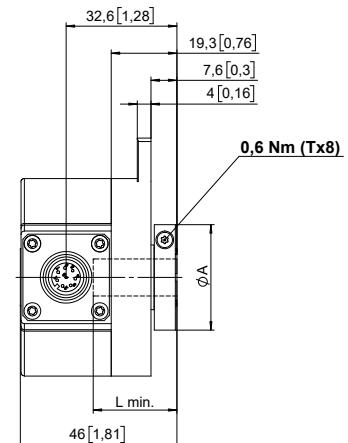
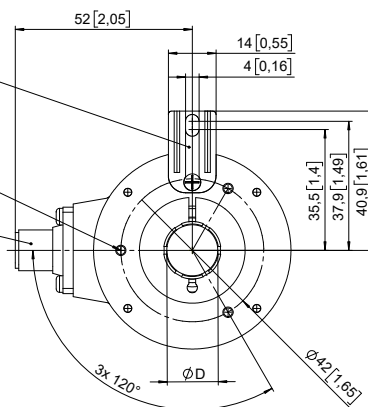
connector type **k** = 2 or 3

ØD	ØA
6 [0,24]	30 [1,18]
8 [0,32]	
10 [0,39]	
12 [0,47]	
14 [0,55]	31 [1,22]
15 [0,59]	
1/4"	30 [1,18]
3/8	
1/2"	
Passung für D: H7 <i>fit for D: H7</i>	
Empfohlene Passung für Welle auf Kundenseite: g6 <i>Recommended fit for customer shaft: g6</i>	
Mindesteinstecktiefe L min.: 33 [1,3] <i>Minimum insertion depth L min.: 33 [1,3]</i>	

**Nut Federelement,
für Drehmomentstift nach DIN 7, Ø4 [0,16]**
Spring element for groove,
for DIN 7 dowel pin, Ø4 [0,16]

(3x) M3, 6 [0,24] tief deep

M12-Stecker (8-polig)
M12 connector (8 pins)



Incremental encoders

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Dimensions hollow shaft version

Dimensions in mm [inch]

Spring element, long
R 35.5 ... 37.9 [1.40 ... 1.49]

Connection, tangential

Cable connection

Open-ended cable

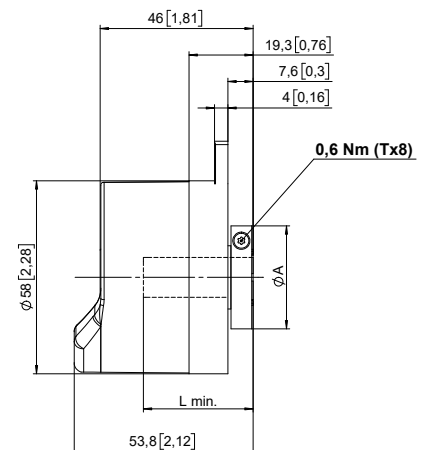
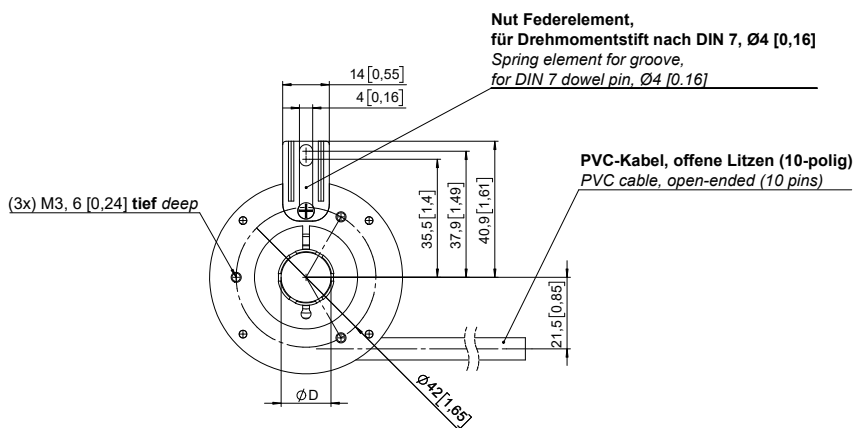
mounting type **e** = 15

position connection **h** = T

type of connection **i** = 1, 2 or 3

connector type **k** = 1

ØD	ØA
6 [0,24]	30 [1,18]
8 [0,32]	
10 [0,39]	
12 [0,47]	
14 [0,55]	31 [1,22]
15 [0,59]	
1/4"	30 [1,18]
3/8	
1/2"	
Passung für D: H7 <i>fit for D: H7</i>	
Empfohlene Passung für Welle auf Kundenseite: g6 <i>Recommended fit for customer shaft: g6</i>	
Mindesteinstecktiefe L min.: 33 [1,3] <i>Minimum insertion depth L min.: 33 [1,3]</i>	



Incremental encoders

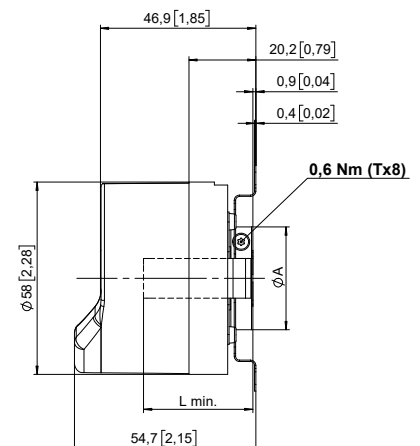
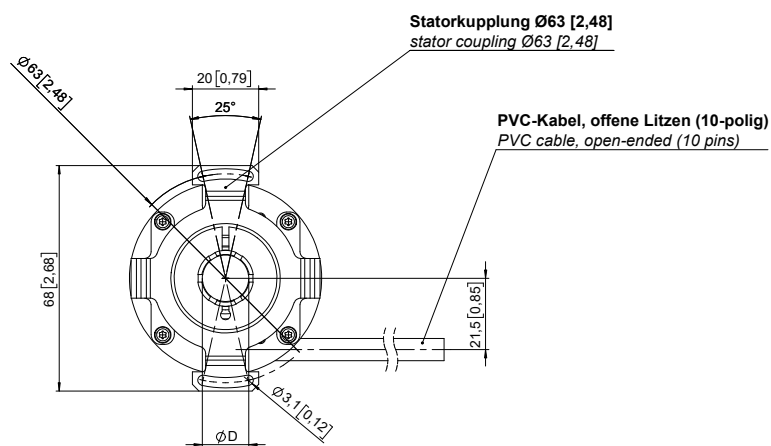
Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Dimensions hollow shaft version

Dimensions in mm [inch]

Stator coupling Ø 63 [2,48]	mounting type e = 25
Connection, tangential	position connection h = T
Cable connection	type of connection i = 1, 2 or 3
Open-ended cable	connector type k = 1

ØD	ØA
6 [0,24]	30 [1,18]
8 [0,32]	
10 [0,39]	
12 [0,47]	
14 [0,55]	31 [1,22]
15 [0,59]	
1/4"	30 [1,18]
3/8	
1/2"	
Passung für D: H7 <i>fit for D: H7</i>	
Empfohlene Passung für Welle auf Kundenseite: g6 <i>Recommended fit for customer shaft: g6</i>	
Mindesteinstecktiefe L min.: 33 [1,3] <i>Minimum insertion depth L min.: 33 [1,3]</i>	



Incremental encoders

Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Dimensions hollow shaft version

Dimensions in mm [inch]

Stator coupling, Ø 65 [2.56]

Connection, radial

Connector on the housing

M23 connector, 12-pin

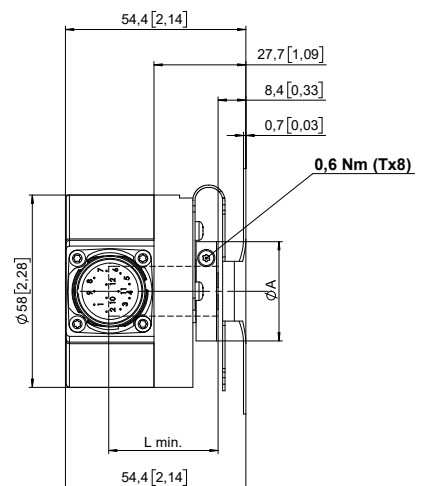
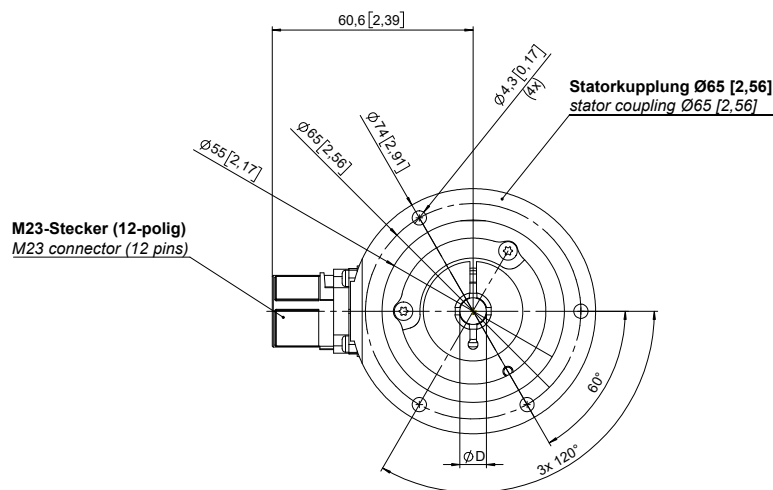
mounting type **E** = 35

position connection **H** = R

type of connection **I** = C

connector type **K** = 4

ØD	ØA
6 [0,24]	30 [1,18]
8 [0,32]	
10 [0,39]	
12 [0,47]	
14 [0,55]	31 [1,22]
15 [0,59]	
1/4"	30 [1,18]
3/8	
1/2"	
Passung für D: H7 <i>fit for D: H7</i>	
Empfohlene Passung für Welle auf Kundenseite: g6 <i>Recommended fit for customer shaft: g6</i>	
Mindesteinstecktiefe L min.: 33 [1,3] <i>Minimum insertion depth L min.: 33 [1,3]</i>	



Incremental encoders

Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Dimensions hollow shaft version

Dimensions in mm [inch]

Torque stop

R 36,6 ... 49,9 [1,44 ... 1,96]

Connection, radial

Connector on the housing

M12 connector, 5- or 8-pin

mounting type **e** = 55

position connection **h** = R

type of connection **i** = C

connector type **k** = 2 or 3

ØD	ØA
16 [0,63]	32 [1,26]
20 [0,79]	38 [1,5]
22 [0,87]	
24 [0,94]	
25 [0,98]	42 [1,65]
1/2"	32 [1,26]
5/8"	
3/4"	38 [1,5]
1"	42 [1,65]

Passung für D: H7

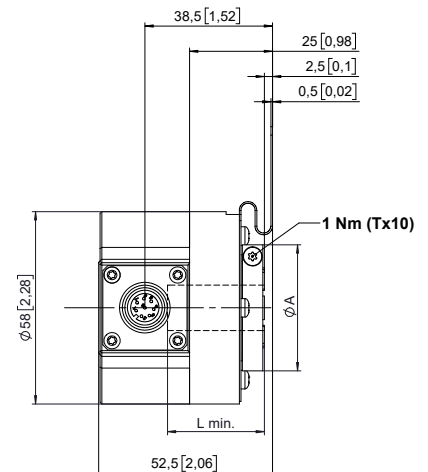
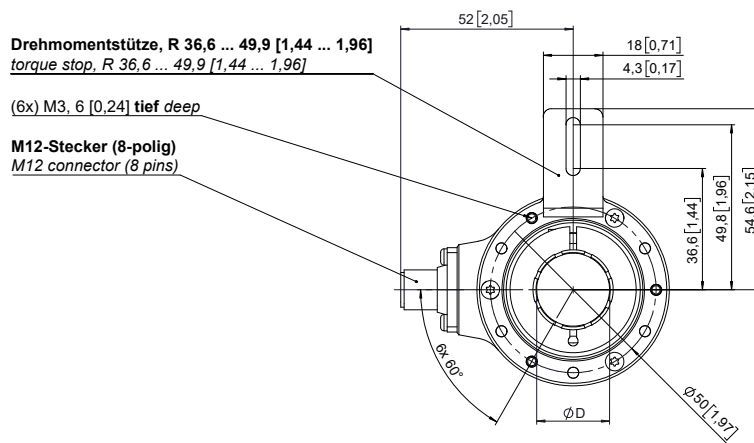
fit for D: H7

Empfohlene Passung für Welle auf Kundenseite: g6

Recommended fit for customer shaft: g6

Mindesteinstecktiefe L min.: 38 [1,5]

Minimum insertion depth L min.: 38 [1,5]



Incremental encoders

**Standard
optical, programmable**

Sendix K58I-PR (shaft / hollow shaft)

Push-pull / RS422

Dimensions hollow shaft version

Dimensions in mm [inch]

Stator coupling

Ø 56,7 ... 70,4 [2,23 ... 2,77]

Connection, radial

Connector on the housing

M23 connector, 12-pin

mounting type **e** = 65

position connection **h** = R

type of connection **i** = C

connector type **k** = 4

ØD	ØA
16 [0,63]	32 [1,26]
20 [0,79]	38 [1,5]
22 [0,87]	
24 [0,94]	
25 [0,98]	42 [1,65]
1/2"	32 [1,26]
5/8"	
3/4"	38 [1,5]
1"	42 [1,65]

Passung für D: H7
fit for D: H7

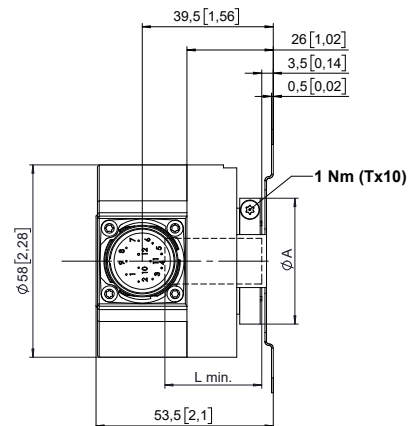
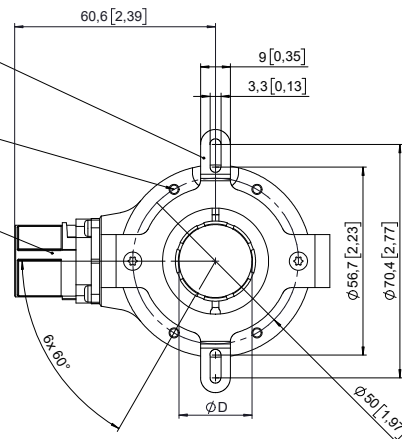
Empfohlene Passung für Welle auf Kundenseite: g6
Recommended fit for customer shaft: g6

Mindesteinstecktiefe L min.: 38 [1,5]
Minimum insertion depth L min.: 38 [1,5]

Statorkupplung, Ø 56,7 ... 70,4 [2,23 ... 2,77]
stator coupling, Ø 56,7 ... 70,4 [2,23 ... 2,77]

(6x) M3, 6 [0,24] tief deep

M23-Stecker (12-polig)
M23 connector (12 pins)



Incremental encoders

Standard optical, programmable	Sendix K58I-PR (shaft / hollow shaft)	Push-pull / RS422
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Dimensions hollow shaft version

Dimensions in mm [inch]

Spring element, long

R 40.2 ... 42.6 [1.58 ... 1.68]

Connection, radial

Connector on the housing

M12 connector, 5- or 8-pin

mounting type **e** = 75

position connection **h** = R

type of connection **i** = C

connector type **k** = 2 or 3

ØD	ØA
16 [0,63]	32 [1,26]
20 [0,79]	38 [1,5]
22 [0,87]	
24 [0,94]	
25 [0,98]	42 [1,65]
1/2"	32 [1,26]
5/8"	38 [1,5]
3/4"	
1"	42 [1,65]

Passung für D: H7

fit for D: H7

Empfohlene Passung für Welle auf Kundenseite: g6

Recommended fit for customer shaft: g6

Mindesteinstecktiefe L min.: 38 [1,5]

Minimum insertion depth L min.: 38 [1,5]

Nut Federelement,
für Drehmomentstift nach DIN 7, Ø4 [0,16]
Spring element for groove,
for DIN 7 dowel pin, Ø4 [0,16]

(6x) M3, 6 [0,24] tief deep

M12-Stecker (5-polig)
M12 connector (5 pins)

