

# KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX M3663 / M3683, MAGNETIC, SSI, Ø36 MM SERIE M3663

- Housing diameter Ø36 mm
- SSI - interface
- New multicolor technology
- IP67



## Product description

Sendix M3663 / M3683 is a magnetically encoded absolute encoder with the latest in multicore technology with "Energy Harvesting". Energy Harvesting technology is based on magnetic recharging, eliminating both battery and gear.

With its magnetic coding, the pulse sensor becomes more shockproof and insensitive. The high IP rating allows the Sendix M3663 / M3683 for outdoor environments and mobile applications.

Please refer to the images below for ordering information.

Order code		8.M3663		.XX2X.XXX2	
Shaft version		Type			
<b>a</b> Flange		<b>d</b> Type of connection		<b>f</b> Resolution (singleturn)	
1 = clamping flange, IP67, Ø 36 mm [1.42"]		1 = axial cable, 1 m [3.28'] PUR		A = 10 bit ST	
3 = clamping flange, IP65, Ø 36 mm [1.42"]		A = axial cable, special length PUR *)		2 = 12 bit ST	
2 = synchro flange, IP67, Ø 36 mm [1.42"]		2 = radial cable, 1 m [3.28'] PUR		<b>3 = 13 bit ST</b>	
<b>4 = synchro flange, IP65, Ø 36 mm [1.42"]</b>		B = radial cable, special length PUR *)		4 = 14 bit ST	
<b>b</b> Shaft (Ø x L), with flat		3 = axial M12 connector, 8-pin		<b>g</b> Resolution (multiturn)	
1 = Ø 6 x 12.5 mm [0.24 x 0.49"]		<b>4 = radial M12 connector, 8-pin</b>		<b>2 = 12 bit MT</b>	
<b>3 = Ø 8 x 15 mm [0.32 x 0.59"]</b>		*) Available special lengths (connection types A, B):		6 = 16 bit MT	
5 = Ø 10 x 20 mm [0.39 x 0.79"]		2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21']		A = 20 bit MT	
2 = Ø 1/4" x 12.5 mm [0.49"]		order code expansion .XXXX = length in dm		4 = 24 bit MT	
<b>c</b> Interface / power supply		<b>e</b> Code		Optional on request	
<b>2 = SSI / 10 ... 30 V DC</b>		B = SSI, binary		- Ex 2/22 (only for connection types 3 and 4)	
		<b>G = SSI, gray</b>		- surface protection salt spray tested	



<b>Order code</b> <b>Hollow shaft</b>		<b>8.M3683</b> Type	<b>.XX2X.XXX2</b> <b>a b c d e f g</b>
<b>a Flange</b> <b>2 = with stator coupling, IP65, ø 46 mm [1.81"]</b> 3 = with spring element, long, IP65 5 = with stator coupling, IP67, ø 46 mm [1.81"] 6 = with spring element, long, IP67		<b>d Type of connection</b> 1 = axial cable, 1 m [3.28'] PUR A = axial cable, special length PUR *) 2 = radial cable, 1 m [3.28'] PUR B = radial cable, special length PUR *) 3 = axial M12 connector, 8-pin <b>4 = radial M12 connector, 8-pin</b> *) Available special lengths (connection types A, B): 2, 3, 5, 8, 10, 15 m [5.56, 9.84, 16.40, 26.25, 32.80, 49.21'] order code expansion .XXXX = length in dm ex.: 8.M3683.242A.G322.0030 (for cable length 3 m)	
<b>b Blind hollow shaft</b> (insertion depth max. 18.5 mm [0.73"]) 1 = ø 6 mm [0.24"] 3 = ø 8 mm [0.32"] <b>4 = ø 10 mm [0.39"]</b> 2 = ø 1/4"		<b>e Code</b> B = SSI, binary <b>G = SSI, gray</b>	
<b>c Interface / power supply</b> <b>2 = SSI / 10 ... 30 V DC</b>		<b>f Resolution (singleturn)</b> A = 10 bit ST 2 = 12 bit ST <b>3 = 13 bit ST</b> 4 = 14 bit ST  <b>g Resolution (multiturn)</b> <b>2 = 12 bit MT</b> 6 = 16 bit MT A = 20 bit MT 4 = 24 bit MT  <i>Optional on request</i> - Ex 2/22 (only for connection types 3 and 4) - surface protection salt spray tested	

## Specifications

Connection Thread	Cable, M12
Housing diameter	36
IP Class	IP65, IP67
Mounting	Shoulder
Output	SSI
Resolution Envarv	10-14 bit
Resolution More Yards	Max. 24 bit
Sensor type	Absolute
Shaft Diameter max	10
Shaft Diameter min	6
Supply Voltage DC Max	30
Supply Voltage DC Min	10
Temperature range from	-40
Temperature range to	85
Version	Multiturn

Interface	Type of connection	Features	Cable (isolate unused wires individually before initial start-up)
2	1, 2, A, B	SET, DR	Signal: 0V -V C+ C- D+ D- SET DR H Cable colour: WH BN GN YE GF PK BU RD shield

Interface	Type of connection	Features	M12 connector, 8 pin
2	3, 4	SET, DR	Signal: 0V -V C+ C- D+ D- SET DR H Pin: 1 2 3 4 5 6 7 8 PH

0V Encoder power supply +V DC  
 0V- Encoder power supply ground (0V)  
 C+, C- Clock signal  
 D+, D- Data signal  
 SET Set input. The current position becomes defined as position zero.  
 DIR Direction input. If this input is active, output values are counted backwards (decrease) when the shaft is turning clockwise.  
 PH Plug connector housing (shield)

M12 connector, 8 pin


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2	1, 2, A, B	SET, DR	Signal: 0V -V C+ C- D+ D- SET DR H Cable colour: WH BN GN YE GF PK BU RD shield

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 C+, C- Clock signal  
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 PH Plug connector housing (shield)

Top view of mating side, male contact base  
  
 M12 connector, 8 pin



