

OEM Automatic Ltd Address: Whiteacres, Whetstone Leicester, LE8 6ZG 0116 284 9900 | Orders@cem.co.uk | www.cem.co.uk

## KUEBLER - ABSOLUTE-CODED ANGULAR TRANSMITTER SENDIX F5863 / F5883, OPTICAL, SSI, Ø58 MM

SERIE F5863

- Housing diameter Ø58 mm
- SSI-Interface
- Total resolution 41 bits
- 100% insensitive to magnetic fields



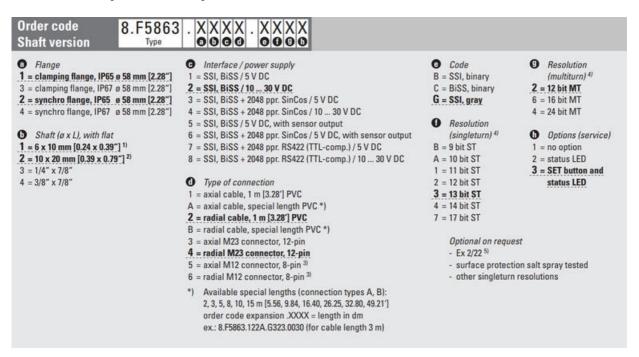
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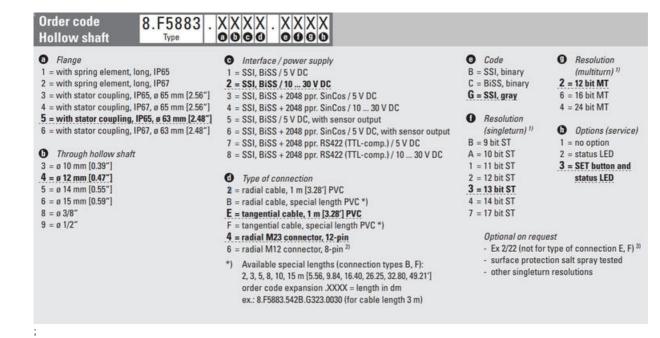
## **PRODUCT DESCRIPTION**

Sendix F5863 / F5883 is a series of robust absolute encoded SSI axis sensors for demanding environments. Thanks to its rugged construction with Safety-Lock <sup>™</sup> and the fully cast housing, the sensor can also handle the more demanding applications where the requirements are high. The wide temperature range combined with the high enclosure class allows the sensor to be used outdoors as well as applications where large temperature changes occur. Perfect for applications requiring high resolution.

The LED indication facilitates diagnostics of the sensor in place and saves time when troubleshooting.

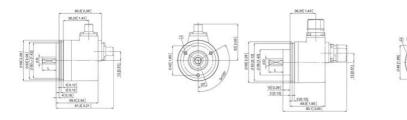
Please refer to the images below for ordering information.





## **TECHNICAL DATA**

Connection	Cable, M12, M23 contact
Housing diameter	58 mm
IP class	IP65, IP67
Mounting	Shoulder
Output	SSI
Resolution MT	SSI: max. 24 bit, BiSS: max. 24 bit
Resolution ST	SSI: 10-17 bit, BiSS: 10-17 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	5 V DC
Temperature operational max	85 °C
Temperature operational min	-40 °C
Version	Multiturn



Interface	Type of connection	Features	Cable (isolate	unuser	d wires	individu	ally be	fore ini	tial star	t-sp)						
1.2	124855	SET DR Status	Signal	0V	+V	C+	C.	D+	D	SIT	DR	Stat	NC	NC	NC	H
6.2	1, 2, 4, 6, 6, 7	SECOR Status	Cable colour	WH	IN.	GN	YΈ	GY	PK	80	RD	BK.		-	-	shie
Interface	Type of connection	Features	M23 connect	DF .												
		SET OR Status	Signal:	OV	÷V.	C+	C.	D+	D-	SIT	DR	Stat	NC	NC	NIC	H
1,2	3,4	SET, DRC SOARDS	Pin:	1	2	1	4	5	6	7	8	9	10	11	12	P1
Interface	Type of connection	Features	Cable Usolate	unuse	d wires	individu	ually be	fore ini	tial star	t-up)						
5	124855	SET, DIR, Status	Signal	OV	+V.	C+	C.	D+	D	SIT	DR	Stat	N/C	Others	+Vsens	H
3	1.ZAS.EF	sensor output	Cable colour.	WH	IN.	GN	m	GY	PK.	80	RD	BK		GI-FK	RD-BU	shie
Interface	Type of connection	Features	M23 connect	CH .												
	12.20	SET DR. Status	Signal:	OV	+¥.	C+	C-	(D+)	D	SIT	DIR	Stat	NC	Divers.	Wans	H
5	3,4	sensor output	Pinc	1	2	3	4	- 5	- 6	7	8	9	10	11	12	21
Interface	Type of connection	Features	Cable (Isolate unused wires individually before initial start-up)													
		SET DR. SinCos	Signal	OV	+4	C+	C.	D+	D	SIT	DIA	A	Ā			H
3,4,7,8	1,2,4,8,E,F	or incr. RS422	Cable colour.	WH	8N	GN	YE	GY	PK	BU	RD	<b>BK</b>	VT		RD-BU	shie
Interface	Type of connection	Features	M23 corinect	or				-		-	-				-	
	3,4	SET DR. SInCos	Signal.	0V	+¥.	C+	C-	D+	D-	SET	DR	A	Ā		T	H
3,4,7,8		or incr. RS422	Pint	1	2	3	4	5	6	7	8	0	10	11	12	11
Interface	Type of connection	Features	Cable Displate	unuse	d wines	individ	cally be	fore ini	tial that	1-00)						-
	1,2,4,8,8,F	SinCosio. Incr. 85422	Sinnal	ov	+4	C+	C.	D+	-P-	A	A	8	8	-	Alberta	Н
6		sensor output	Cable colour.	1011	BN	GN	YE	GY	PK.	BU	1D	BK	VT		RD-BU	shie
Interface	Type of connection	Features	M23 connect	or												
	3,4	SinCos o. Incr. R5422	Signal	6Y	+1	C+	c.	D+	D-	A	Ă		R	Inhori	+Vurni	Н
6		sensor output	Per	1	2	3	4	3	4	7		9	10	11	12	21
Interface	Type of connection	Features	M12 connect	Dr.				A service of		-	-					
			Signal	ov	+4	C+	c.	D+	D-	SET	DR		н			
1,2	5.6	SET DIR	Fire	1	2	1	4	5	4						-	
17. 17. 17. 17. 17. 17. 17. 17. 18. 18.	Encoder powe acc Using the serv can be measu Clock signal Data signal Incremental o Incremental o	v supply +V DC v supply ground GN for outputs of the en red and if necessary i utput channel 8 (cor- utput channel 8) (sin current position bec-	coder, the volt increasedaccor line) el ornes defined i	dingly.	01.240					(	000	)		1 conta		
at. XR	Direction inpu backwards (de	t: If this input is activ crease) when the sh								M12	connec	toc8-pi	n	M23 co	nnector	(12)
EB.	Direction inpu backwards (de Status output	t: If this input is activ								M12	connec	toc8-pi	n	M23 co	nnector	612

interface	Type of connection	Features	Cable (solate unused wires individually before initial start up)													
1,2		SET DIR Status	Signal	OV.	+V	C+	c	D+	D-	SIT	DIR	Stat	NC	NC	NC	H
	1,2,4,8,E,F	SET DR. Status	Cable colour	9894	0N	GN	YE	GY	PK	80	RD	BK.		-		shiel
interface	Type of connection	Features	M23 connects	H.									_			
1.2	3.4		Signal	ov	44	C+	0	0+	D-	SIT	DR	Stat	NC	NC	NIC	H
1.2	3.4	SET, DIR, Status	Pinc	1	2	3	4	5	6	7		9	10	11	12	PH
interface	Type of connection	Features	Cable (solate snused wires individually before initial start-up)													
5	124855	SET, DIR, Status	Signal	ov	+1	C+	C	D+	D	SET	DIR	Stat	NC	Ovisers	+Viens	H
3	1.ZAS.EF	sensor output	Cable colour:	WH	8N	GN	m	GY	PK	80	RD	DK.		GT-FK	RD-BU	shiel
wherface	Type of connection	Features	M23 connects	or .												
5		SET, DIR, Status	Signal:	ov	+V.	C+	C-	De:	D	SET	DIR	Stat	NC	(Viseo)	Wens	H
	3,4	sensor output	Piec	1	2	3	4	5	- 6	y	8	9	10	11	12	211
interface	Type of connection	Features	Cable (solate unused wires individually before initial start up)													
		SET, DRL SinCos	Signal:	OV	+V	C+	C	D+	D	SET	DIR	A	Ā		8	H
3,4,7,8	1,2,4,8,E,F	or incr. RS422	Cable colour	WH	8N	GN	YE	GY	PK	BU	RD	<b>BK</b>	VT	GT-PK	RD-BU	shiel
interface	Type of connection	Features	M23 corinecti	a.		-	-		_	-			-			
3.4.7.8	3.4	SET DIR SINCOL	Signal	0V	+V	C+	C.	D+	D-	SET	DR	A	Ā		T.	н
		or incr. RS422	Pinc	1	2	3	4	5	6	7		0	10	11	12	P11
Interface	Type of connection	Features	Cable (solate	MOUSE	diminers	individ	ually be	fore ini	tial tax	(au-tr		-	-	-	-	-
6	1,2.4.8.E.F	SinCosia. Incr. 85422	Signal:	ov	+V	C+	C	D+	P-	A	A		8	(them	+Vhens	н
		sensor output	Cable colour:	1001	BN	GN	YE	GY	PK.	BU	RD	<b>BK</b>	¥7	GY-FX	RD-BU	shel
interface	Type of connection	Features	M21 connects	or .												
	λ.4	SinCos a. Incr. 85422	Signal	ov	+V.	C+	C	D+	D-	A	Ă		B	(them)	+Werei	H
6		sensor output	Piec.	1	2	3	4	5	6	7		9	10	11	12	211
Interface	type of connection	Features	M12 connects	r						-						
	5.6	SET, DIR	Signal	ov	+Y	C+	C.	D+	D-	SET	DR		н			
1,2			Pes	1	2	3	4	5	6	7	.8	-	PH			
だ V Varms / + We +, C -: +, D -: 美 長 注 用 朝 ま	Encoder powe visc: Using the sens can be measur Clock signal Data signal Incremental or Incremental Set input. The Direction inpu	r supply +V DC r supply ground GN or outputs of the er- ed and if necessary apput channel A (con- atput channel B (sin- current position bec- t if this input is acti- crease) when the sh	coder, the volt increasedaccor line) el omes defined a re, output valu	dingly.	ion zen ourited					(		)			of base	•••