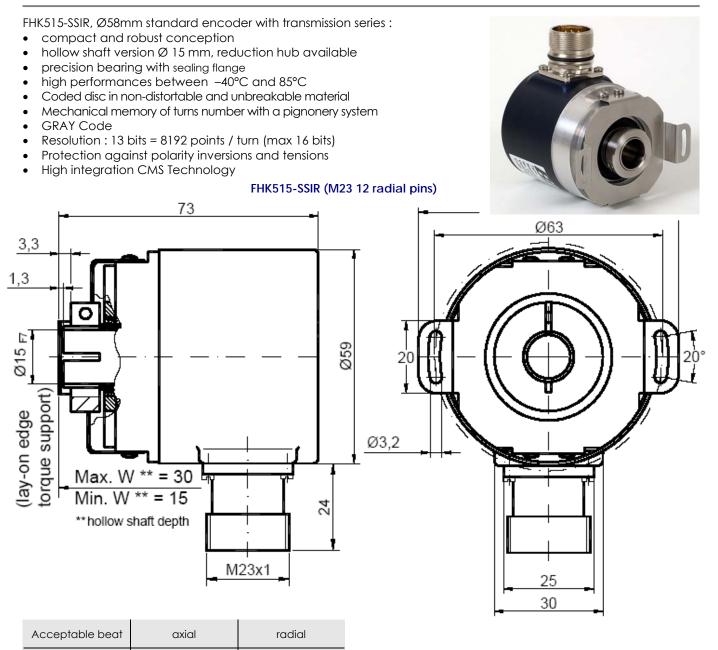


ABSOLUTE ENCODERS SINGLE TURN SSI, SERIE FHK515-SSIR

FHK5 CE



BEI Sensors SAS Espace Européen de l'Entreprise 9, rue de Copenhague B.P. 70044 Schiltigheim

F 67013 Strasbourg Cedex

Tél Fax Mail Web

+33 (0)3 88 20 80 80 +33 (0)3 88 20 87 87

info@beisensors.com www.beisensors.com

info

Possibility of reduction of the hollow shaft diameter to 12mm, 10mm or 8mm using hubs (putting them inside the shaft)

MECHANICAL CHARACTERISTICS

± 0.3 mm

±0.1 mm

static

dynamic

Cover : aluminium	shocks (EN 60068-2-27)	≤ 100 g (half sinus, 6 ms)	
Body : aluminium	shocks (EN 60028-2-29)	≤ 10 g (half-sinus, 16ms)	
shaft: Stainless steel	Vibrations (EN 60068-2-6)	≤ 10 g (10Hz 1 000Hz)	
Axial : 40 N	weight (version aluminium)	200 g	
Radial : 110 N	Operating temperature	- 40 + 85°C	
≤ 30 g.cm ²	Storing temperature	- 40 + 85°C	
orque ≤ 3 N.cm		98 % without condensation	
6 000 tr/min	Protection degree	cover: IP65, body: IP64	
	Body : aluminium shaft: Stainless steel Axial : 40 N Radial : 110 N ≤ 30 g.cm ² ≤ 3 N.cm	Body : aluminium shocks (EN 60028-2-29) shaft: Stainless steel Vibrations (EN 60068-2-6) Axial : 40 N weight (version aluminium) Radial : 110 N Operating temperature ≤ 30 g.cm² Storing temperature ≤ 3 N.cm Humidity	

± 0.5 mm

± 0.2 mm

Changes possible without further notice V1.0

BEISENSORS

BEI Sensors SAS Espace Européen de l'Entreprise 9, rue de Copenhague B.P. 70044 Schiltigheim F 67013 Strasbourg Cedex

: +33 (0)3 88 20 80 80 : +33 (0)3 88 20 87 87 : info@beisensors.com : www.beisensors.com

Tél Fax Mail Web

CODEURS ABSOLUS MONOTOURS SSI, SERIE FHK515-SSIR

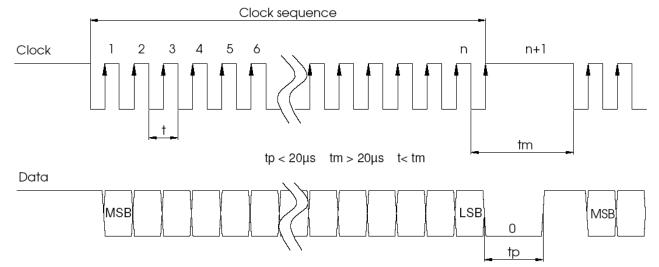
Embase codeur:

ELECTRICAL CHARACTERISTICS

Input signal clock CLK	per opto-coupleur
Output signal clock DATA	line - driver RS422
Clock frequency CLK	100kH – 2MHz
Precision	+ ½ LSB
supply	10 – 30Vdc

Cycle time (Reset)	< 150 µs
introduction	< 1 s
Consumption	max 1W
Electrical lifetime	> 10 ⁵ h
CEM	EN 61000-6-4 EN 61000-6-2

SSI TRANSMISSION



Driver	Data referring to standard R\$422 ; transmission up to 10 Mbits/s			
Transmission	Transmission up to 1 200m			
Security	Transmission of signals			
Cable	High security of transmission by using shielded cable and twisted pairs			

SSI CONNECTION ON M23 CONNECTOR 12 PINS

	Туре	CLK -	CLK +	DATA +	DATA -	Sense	Reset	+ Ub = 10-30Vdc	GND	
Ī	S1	1	2	3	4	8	9	11	12	

INPUTS

Counting when shaft in CW	(body side)	Value back to zero			
0 (input = NC ou GND) Increasing counting		0 (entrée = NC ou GND)	Position		
1 (input = +Ub ou \geq 4,5V)	Decreasing counting	1 (entrée = +Ub ou ≥ 4,5V	Reset on decreasing front (100ms)		

REFERENCES

FHK5	S1	00	G	00	13	В	15	0	PRL
Absolute mono turn encoder	Reset Fonction	Version	Gray Code	Mono turn encoder	Resolution in the tour : 2 ¹³ (8 192)	Hollow shaft	Shaft diameter 15mm, reduction hubs availabale	without mechanical option	radial connector output

Datasheets provided by Sensata Technologies, Inc., its subsidiaries and/or affiliates ("Sensata") are solely intended to assist third parties ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, valuation, and judgment in designing Buyer's systems and products. Sensata datasheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular datasheet. Sensata may make corrections, enhancements, improvements, and other changes to its datasheets or components without notice.

Buyers are authorized to use Sensata datasheets with the Sensata component(s) identified in each particular datasheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATASHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATASHEETS OR USE OF THE DATASHEETS, EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATASHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com. SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY, AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA

CONTACT US

Regional head offices:

United States of America Sensata Technologies

Attleboro, MA

Phone: 508-236-3800 E-mail: support@sensata.com

Netherlands

Sensata Technologies Holland B.V. Hengelo

Phone: +31 74 357 8000 E-mail: support@sensata.com

China

Sensata Technologies China Co., Ltd. Shanghai **Phone:** +8621 2306 1500 **E-mail:** support@sensata.com

Copyright © 2023 Sensata Technologies, Inc.