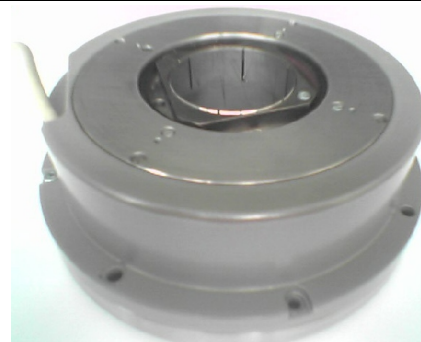


Code TDB	Project TBD	Release A	Title TECHNICAL DATASHEET
--------------------	-----------------------	---------------------	-------------------------------------

OPTICAL ENCODER EN570H

GENERAL FEATURES

- Optical rotary encoder.
- Bi-directional signals with zero pulse.
- Flange and body made of aluminium.
- Output by connector or cable (with sealing fairlead), radial or axial.



MECANICAL AND ELECTRICAL FEATURES

MECHANICAL	Cod. EN570H	PP/LD	1Vpp/11uA
<ul style="list-style-type: none"> • Flange and body made of aluminium. • Shaft made of stainless steel. • Ball bearings with special high-sealed screens. • High protection even in harsh environmental conditions. 			
ELECTRICAL			
<ul style="list-style-type: none"> • Protection against short circuit. • Protection against inversion of polarity. • High stability of output signal. • Reading device with infra-red light emitter and receiving photodiodes. • A and B output signal with phase displacement of 90° electrical. 			
	Pulses per revolutions	Fi eeeA A eeeceA] i A	Fi eeeA] i A
	Max. rotating speed	1000 rpm	
	Max. load on shaft	30 N (radiale) – 30 N (assiale)	
	Hall Shaft (diameter) mm	ØA €PI	
	Protection class	IP64	
	Operating temperature	0 ÷ 1 0°C	
	Stocking temperature	-30 ÷ 85°C	
	Relative humidity	98% (without condensation)	
	Power supply	5 V ± 5%	
	Max. consumption at 5V (With no load)	150 mA	100mA
	Max. frequency	150-450kHz	(-3db cutoff) ≥ 1 0 kHz
	Output	PP or LD	Uq ~ • [aay / V] B FCE
	Standard length of cable	1 m	1 m
	Electrical connections	See the related table	
	Electrical protection	Inversion of power suppli polarity and short circuit on output port	
	Weight	3500 g	

ORDER CODE

MODEL	CABLE/CONN. OUTPUT	PPR	POWER SUPPLY	SHAFT Ø	CABLE / CONN.	OUTPUT	CONNECTION	OPTION
EN570H	HR	18000	05V	D20	M01	SV	C	

HR = radial

05V = 5V

D20 = Ø20 (

 M.5 = 0.5m
 M01 = 1m
 CD = A/P
 C12 = 10P Amph.
 CG = 12P Connei

 SV = 1Vpp
 SI = 1F° CE
 PP = Push Pull
 LD = Line Driver

 C = cable
 n = no. wiring

No cod. = standard config.

Esempio  **ENCODER OTTICO EN570H HR 18000 05V D14 M01 SVC**

Code TDB	Project TBD	Release A	Title TECHNICAL DATASHEET
--------------------	-----------------------	---------------------	-------------------------------------

CABLE AND ELECTRICAL CONNECTIONS						
<p>Cable 8 cores $\varnothing = 6.5$ mm, PVC external sheath Wires section: - for power supply: 0.5 mm² - for signals: 0.14 mm²</p> <p>Cable 5 cores $\varnothing = 5.4$ mm, PVC external sheath Wires section: - for power supply: 0.22 mm² - for signals: 0.14 mm²</p> <p>NOTES. Do not exceed the minimum cable bending radius of 30 mm.</p>	SV (1Vpp)		LD		PP	
	SIGNAL	WIRE COLOR	SIGNAL	WIRE COLOR	SIGNAL	WIRE COLOR
	A	Pink	A	Pink	A	Pink
	B	White	B	White	B	White
	Z	Yellow	Z	Yellow	Z	Yellow
	A negato	Grey		Grey	A -	
	B negato	Brown		Brown	B -	
	Z negato	Green		Green	Z -	
	V+	Red	V+	Red	V+	Red
	GND	Blue	GND	Blue	GND	Blue
	Sense V+	Black				
	Sense 0V	Violet				
		Shield		Shield		Shield

SHIELDED CABLE								
		<table border="1"> <thead> <tr> <th>POWER SUPPLY</th> <th>RL</th> </tr> </thead> <tbody> <tr> <td>5 V 1Vpp \overline{BF} \overline{CE}</td> <td>120 Ω</td> </tr> <tr> <td>5 V LD/PP</td> <td>120 Ω</td> </tr> </tbody> </table>	POWER SUPPLY	RL	5 V 1Vpp \overline{BF} \overline{CE}	120 Ω	5 V LD/PP	120 Ω
POWER SUPPLY	RL							
5 V 1Vpp \overline{BF} \overline{CE}	120 Ω							
5 V LD/PP	120 Ω							
<p>In case of cable extension, the electrical connection between the body of connectors must be ensured.</p>								

DIMENSIONS AND RECOMMENDED FIXING	
<p> $\varnothing 160 \pm 0,1$ $\varnothing 5,5$ 4 holes Clinching Clamp M3-Fixing screw to object shaft </p>	<p> $62 \pm 0,5$ 3 22 $\varnothing 170$ $\varnothing 140g6$ $\varnothing 50H7$ </p>

WHAT TO AVOID	
<ul style="list-style-type: none"> Any type of mechanical working (cut, drill, mill, etc.) Any modification either on the body or on the shaft of the encoder Any kind of bad usage External hits or stresses 	