



SERIE 58S

INCREMENTAL SOLID SHAFT ENCODER FOR INDUSTRIAL APPLICATIONS

 SIN/COS

- Resolution up to 2.048 pulses per turn
- External diameter 58 mm
- Shaft \varnothing 6 mm
- Fixation through synchro flange
- Protection class IP65 according to DIN EN 60529
- Connection by cable (other cable length available) or industrial connector M12, M23
- Female connector included



Optical Encoder



Incremental Encoder



High shaft load capacity



Vibration and shock resistant



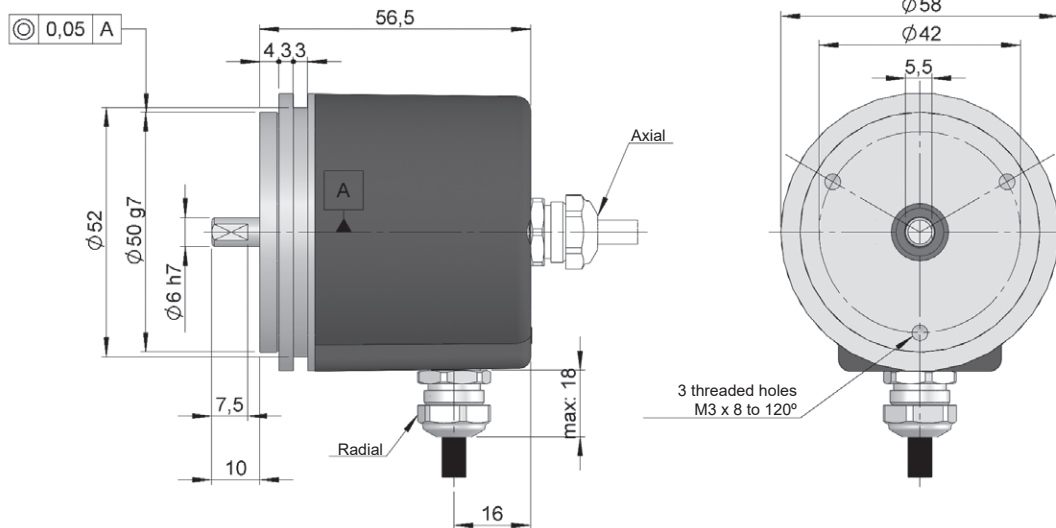
IP65



SIN/COS



Express Delivery



Drawing shaft type 1, connection type 1/2, without flange

REFERENCE

Reference example: 58S-11127-2048

Serie	Shaft	Flange	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer
58S -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="4"/> <input type="text" value="8"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	1. \varnothing 6x10 mm	1. None	1. A \ddot{A} +B \ddot{B} +0 \ddot{O} 2. A \ddot{A} +B \ddot{B}	1. Axial cable 2. Radial cable 3. Axial 90.9512 4. Radial 90.9512 5. Axial 90.9508 6. Radial 90.9508	7. 5 VDC / SIN-COS 1Vpp 5 VDC		

Order your reference
Step file 3D

info@encoderhohner.com

service available in 24 h



SERIE 58S

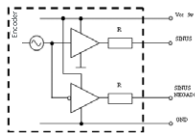
INCREMENTAL SOLID SHAFT ENCODER FOR INDUSTRIAL APPLICATIONS

SIN/COS

MECHANICAL SPECIFICATIONS

Materials	Cover: Aluminium Housing: Aluminium Shaft: Stainless Steel
Bearings	Ballraces
Bearings lifetime	1x10 ¹⁰ rev.
Maximum number of revolutions permitted mechanically	6000 rpm
Protection against dust and splashes according to DIN EN 60529	IP65
Rotor inertia moment	30 gcm ²
Starting torque at 20°C (68°F)	≤ 0,02 Nm
Maximum load permitted on axial shaft	40 N
Maximum load permitted on radial shaft	60 N
Weight aprox.	0,5 Kg
Operating temperature range	-20°C to +80°C
Vibration according to DIN EN 60068-2-6	100 m/s ² (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s ² (6ms)
Number of pulses per turn	2.048
Axial or radial connection	2 meters cable or industrial connector M12, M23 (other cable lengths available on order) Female connector included

OUTPUT SIGNALS



OUTPUT CIRCUIT	Sine-wave
Reference code	7
Power supply	5 VDC ±10%
Output voltage	5 VDC
Consumption	Typical: 40 mA Max: 90 mA
Length of cable allowed	50 m
Signal type	SIN/COS, 1Vpp
Output signal level	0.6 to 1.2 Vpp
Signal offset	2.5 VDC
Reference	0.2 to 1 VDC
Frequency	200 kHz
Protection polarity inversion	Not permanent

Cosine leads (90° electric) Sine, view from the shaft, shaft rotating clockwise

SERIE 58S

INCREMENTAL SOLID SHAFT ENCODER FOR INDUSTRIAL APPLICATIONS

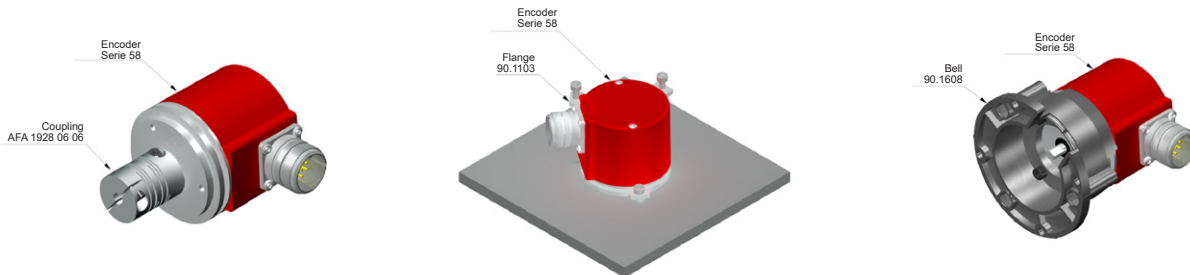
SIN/COS

CONNECTION



	95.0008003 Cable 3x2x0,14+2x0,34	90.9508 M12 8p CCW	90.9512 M23 12p CW
GND	Black	1	1
Vcc	Red	2	2
COS	Yellow	3	3
SIN	Green	4	4
$\overline{\text{COS}}$	Brown	5	5
$\overline{\text{SIN}}$	Blue	6	6
0 (reference)	Grey	7	7
$\tilde{0}$	Orange	8	8

ACCESSORIES EXAMPLES



All the accessories available in the section "MOUNTING ACCESSORIES".

CONNECTION DIMENSIONS

Female connector included

Connection 3

Axial 90.9512

Connection 4

Radial 90.9512

90.9512

M23 12p

male panel

clockwise

