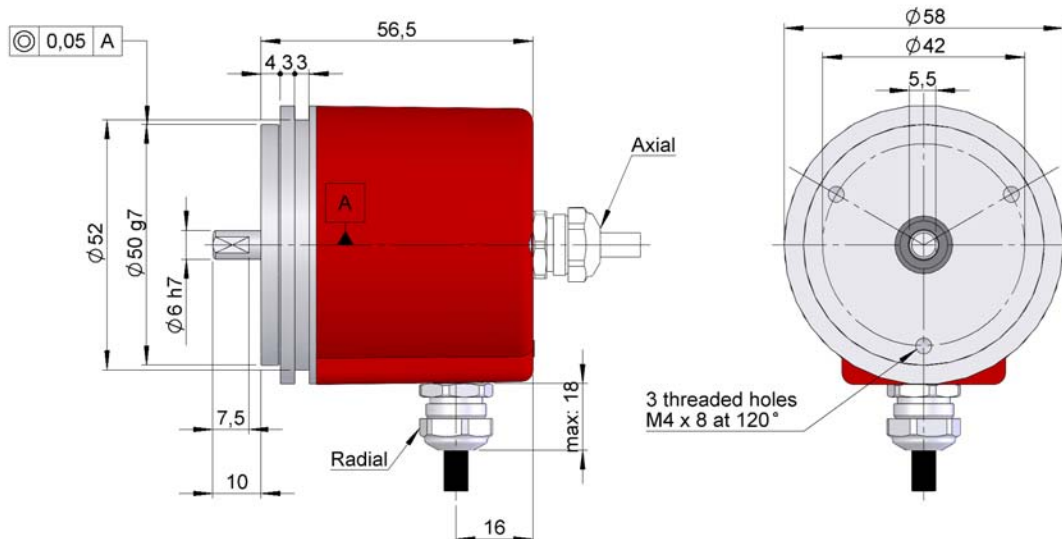
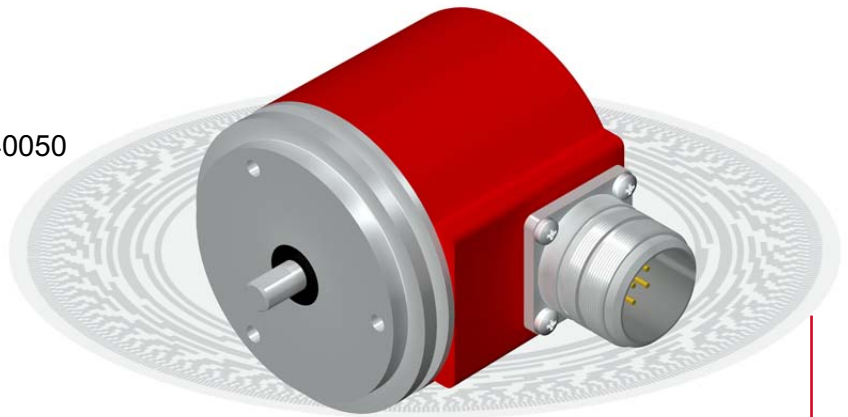


# SERIE 58 SIN/COS

## INCREMENTAL SOLID SHAFT ENCODER FOR INDUSTRIAL APPLICATIONS

- Available 1024 or 2048 pulses
- External diameter 58 mm
- Shaft 6 mm
- Protection class IP65 according to DIN 40050
- Synchro flange
- Connection by cable (any cable length available) or industrial connector



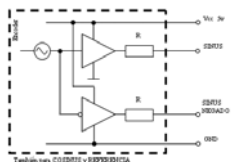
Previous mounting and installation of the encoder is recommended to read the section "TECHNICAL CONSIDERATIONS".

### MECHANICAL SPECIFICATIONS

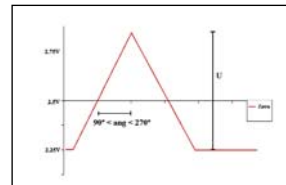
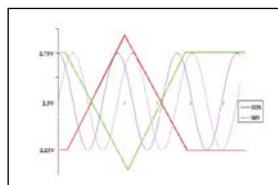
Housing	Aluminium.
Shaft	Stainless Steel.
Bearings	Ballraces.
Bearings lifetime	1x10 <sup>10</sup> rev.
Maximum number of revolutions permitted mechanically	6000 rpm.
Protection against dust and splashes according to DIN 40050	IP65.
Rotor inertia moment	30 gcm <sup>2</sup> .
Starting torque at 20°C (68°F) ,	Max. / 2,0 Ncm.
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	100 m/s <sup>2</sup> (10Hz...2000Hz).
Shock	1000 m/s <sup>2</sup> (6ms).
Maximum pulses per turn	1024 or 2048 pulses
Axial or radial connection	Cable 2 metres or industrial connector (other cable length available on order)

## ELECTRICAL SPECIFICATIONS

### OUTPUT SIGNALS



	<b>Sine-wave</b>
Power supply	5 V ±5%
Consumption	Typical: 80 mA Max: 150 mA
Max. signal delay	90° Electrics
Length of cable allowed	50 m
Signal type	Sin/Cos
Output signal level	0.6 a 1.2 Vpp
Reference	0.2 a 1 V
Frequency	200 kHz
Protection against polarity inversion	No



### CONNECTION

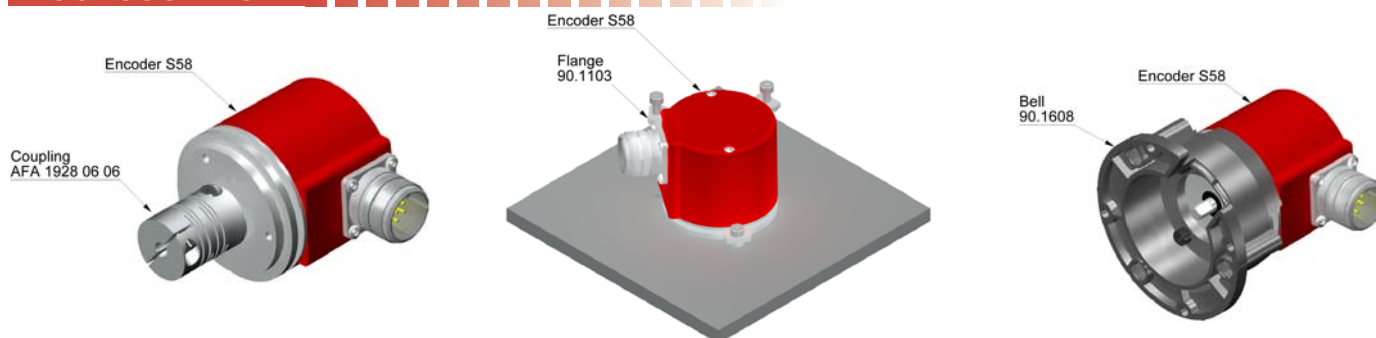


	Cable 3x2x0,14+2x0,34	90.9508 M12 8p	90.9512 M23 12p
GND	Black	1	1
Vcc	Red	2	2
A	Yellow	3	3
B	Green	4	4
A inverted	Brown	5	5
B inverted	Blue	6	6
0 (reference)	Grey	7	7
0 inverted	Orange	8	8

## ORDERING CODE

SERIE	SHAFT	FLANGE	OUTPUT SIGNALS	CONNECTION	ELECTRONIC OUTPUT	PULSES NUMBER	SPECIAL CUSTOMER
58S	● 1- Ø6 x 10 mm	● 1- Synchro	● 1- A $\tilde{A}$ + B $\tilde{B}$ + 0 $\tilde{0}$ 2- A $\tilde{A}$ + B $\tilde{B}$	● 1- Axial cable 2- Radial cable 3- Axial 90.9512 4- Radial 90.9512 5- Axial 90.9508 6- Radial 90.9508	● 7- SIN/COS 1Vpp 5V.	●●●●●●●●	●●●●●●●●

## ACCESSORIES



All the accessories available in the sections "SIGNAL CONDITIONERS" and "MOUNTING ACCESSORIES".