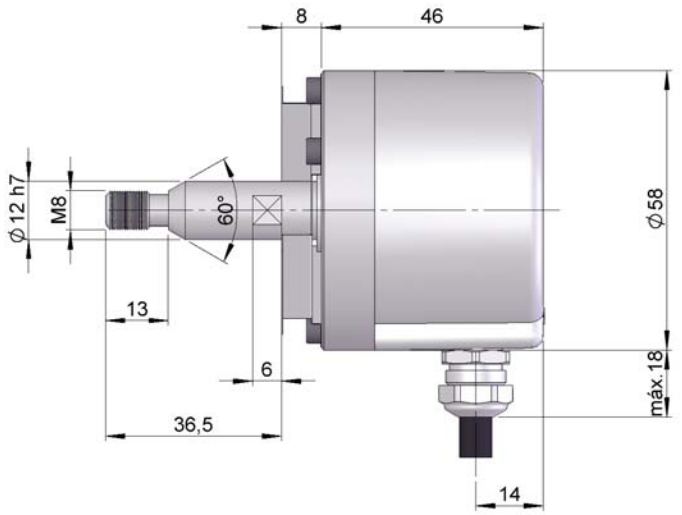
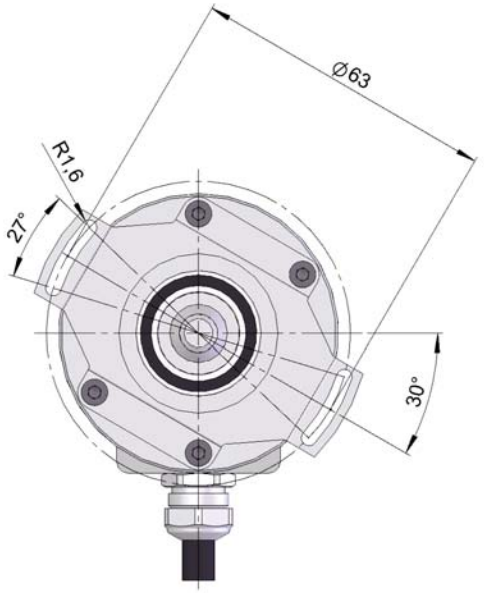
THREAD SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

- Any number of pulses available from 1 to 10.000 pulses
- External diameter 58 mm
- Thread shaft M8
- Protection class IP64 according DIN 40050
- Connection by cable (any cable lenght available) or industrial connector





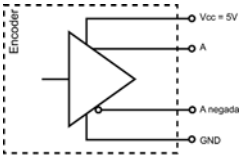
Previous mounting and installation of the encoder is recommended to read the section “TECHNICAL CONSIDERATIONS”.

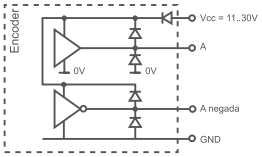
MECHANICAL SPECIFICATIONS

Housing	Aluminium.
Shaft	Stainless Steel.
Bearings	Ballraces.
Bearings lifetime	$1x10^{10}$ rev.
Maximum number of revolutions permitted mechanically	6000 rpm.
Protection against dust and splashes according to DIN 40050	IP64.
Rotor inertia moment	30 gcm^2.
Starting torque at 20ºC (68ºF) ,	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	-20ºC to +80ºC.
Vibration	100 m/s^2 (10Hz...2000Hz).
Shock	1000 m/s^2 (6ms).
Maximum pulses per turn	10.000.
Axial or radial connection	Cable 2 metres or industrial connector (other cable lenghts available on order).

ELECTRICAL SPECIFICATIONS

OUTPUT SIGNALS





	RS422 (TTL compatible)	Push-Pull Differential
Power supply	5 V ±5%	11...30 V
Consumption	Tipico: 70 mA Max: 150 mA	Tipico: 45 mA Max: 150 mA
Max. load capability	±20 mA	±30 mA
Lenght of cable allowed	1200 m	100 m
"Low" signal level	VOL < 0,5 V	VOL < 2.5 V
"High" signal level	VOH > 2.5 V	VOH > Vcc – 3 V
Frequency	300 kHz	200 kHz
Short circuit protection	Yes	Yes
Protection against polarity inversion	No	Yes
Channel B leads (90º electric) channel A		

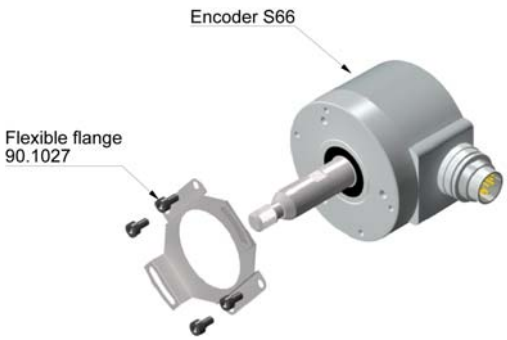
CONNECTION

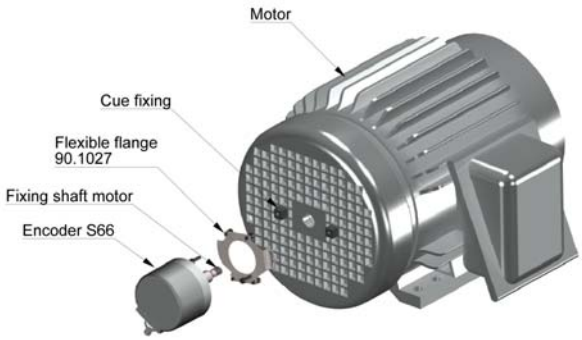
	Cable 6x2x0,14+2x0,34	90.9513 M16 12p
GND	Black	K - L
Vcc	Red	B - M
A	Yellow	E
B	Green	H
A inverted	Brown	F
B inverted	Blue	A
0 (reference)	Grey	C
0 inverted	Orange	D

ORDERING CODE

SERIE	SHAFT	ANTIROTATION SYSTEM	OUTPUT SIGNALS	CONNECTION	ELECTRONIC OUTPUT	PULSES NUMBER	SPECIAL CUSTOMER
66	●	●	●	●	●	● ● ● ● ●	● ● ● ●
	1- Thread M8	**1**- Elastic flange 90.1027 **2**- Antirotation bar 90.1041 **3**- Without antirotation system	**1**- AÃ + BB̃ + 0Õ **2**- AÃ + BB̃	**1**- Radial cable **2**- Radial 90.9513	**1**- Differential line driver. Push-Pull 11..30V **2**- Standard RS422. 5V. Compatible TTL		

ACCESSORIES





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