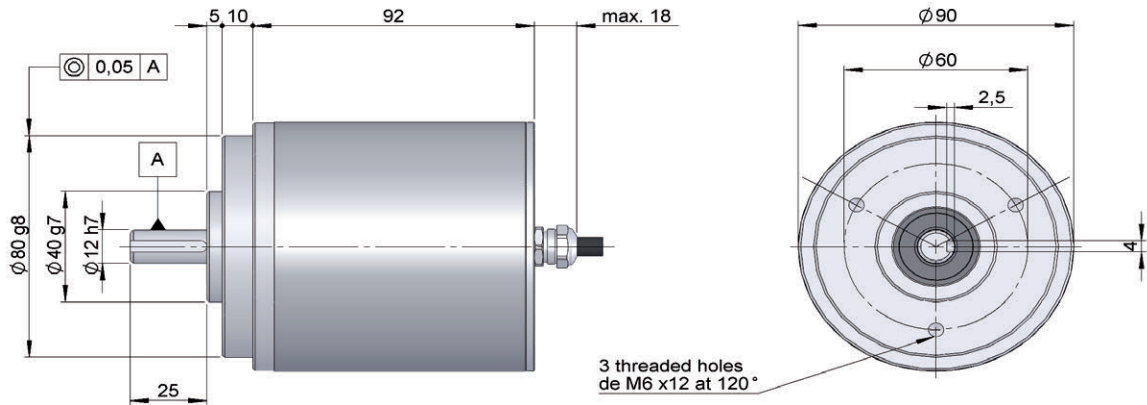




SERIE 30 IP67 INOX

HIGH RESOLUTION INCREMENTAL SOLID SHAFT ENCODER FOR SEVERE AND HEAVY DUTY INDUSTRIAL APPLICATIONS

- Any number of pulses available from 1 to 50.000 pulses
- External diameter 90 mm
- Shaft 12 mm
- Protection class IP67 according to DIN EN 60529
- Executions mechanical, electronic and special optics available on request
- Connection by cable (any cable length available) or industrial connector
- Female connector included



Drawing encoder S30 IP67, connection type 0

REFERENCE

Reference example : 30I-4200-1024

Serie	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer
30I -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
30I. Stainless Steel	30. A 40. A+B 42. A+B+0 43. A+B+0̄ 35. ĀA+B̄B̄ 36. ĀA+B̄B̄+0̄0̄	0. Axial cable	0. 11...30V / NPN Open collector 11...30V 6. 11...30V / RS422 5V (compatible TTL) 7. 5V / RS422 5V (compatible TTL) 9. 11...30V / Line driver differential Push-Pull 11...30V	(*)	FT00. -40°C

(*) 10.000 to 50.000 pulses with interpolation. Available 10.000 direct optical pulses without interpolating upon request.



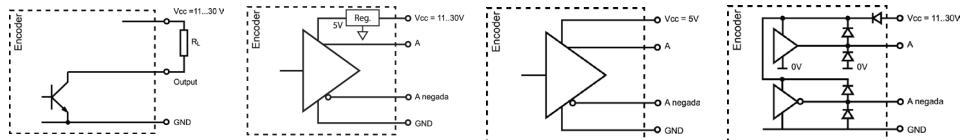
SERIE 30 IP67 INOX

HIGH RESOLUTION INCREMENTAL SOLID SHAFT ENCODER FOR SEVERE AND HEAVY DUTY INDUSTRIAL APPLICATIONS

MECHANICAL SPECIFICATIONS

Materials	Cover: Stainless Steel Housing: Stainless Steel 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	IP67
Rotor inertia moment	270 gcm ²
Starting torque at 20°C (68°F)	Max. 5,0 Ncm
Maximum load permitted on axial shaft	80 N
Maximum load permitted on radial shaft	100 N
Weight aprox.	1,2 Kg
Operating temperature range	-20°C a +80°C - Standard -40°C a +80°C - Special Customer FT
Vibration	100 m/s ² (10Hz...2000Hz)
Shock	1000 m/s ² (6ms)
Maximum pulses per turn	50.000
Axial connection	Cable 2 meters or industrial connector (other cable length available on order) Female connector included

OUTPUT SIGNALS





OUTPUT CIRCUIT	NPN Open Collector	RS422 (TTL compatible)	RS422 (TTL compatible)	Push-Pull Differential
Reference code	0	6	7	9
Power supply	11...30 V	11...30 V	5 V ±5%	11...30 V
Output voltage	11...30 V	5 V	5 V	11...30 V
Consumption	40 mA	Typical: 80 mA Max: 160 mA	Typical: 70 mA Max: 150 mA	Typical: 45 mA Max: 150 mA
Max. load capability	40 mA	±20 mA	±20 mA	±30 mA
Length of cable allowed	50 m (a 24 V)	1200 m	1200 m	100 m
"Low" signal level	VOL < 0,4 V (a 24 V)	VOL < 0,5 V	VOL < 0,5 V	VOL < 2.5 V
"High" signal level	VOH > 22 V (a 24 V)	VOH > 2.5 V	VOH > 2.5 V	VOH > Vcc - 3 V
Frequency	100 kHz	300 kHz	300 kHz	200 kHz
Short circuit protection	Not permanent	Yes	Yes	Yes
Protection against polarity inversion	Yes	Yes	No	Yes

Channel B leads (90° electric) channel A

SERIE 30 IP67 INOX

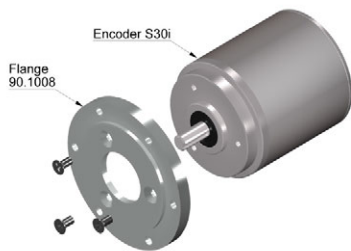
HIGH RESOLUTION INCREMENTAL SOLID SHAFT ENCODER FOR SEVERE AND HEAVY DUTY INDUSTRIAL APPLICATIONS

CONNECTION

	 Cable 2x2x0,14+1x0,14	 (*) Cable 3x2x0,14+2x0,34
GND	Yellow	Black
Vcc	White	Red
A	Brown	Yellow
B	Green	Green
A inverted		Brown
B inverted		Blue
0 (reference)	Grey	Grey
0 inverted	Grey	Orange

(*) Cable 3x2x0,14+2x0,34 only for encoders with inverted signals.

ACCESORIES EXAMPLES



All the accessories available in the sections "ELECTRONIC MODULES AND COUNTERS" and "MOUNTING ACCESSORIES".