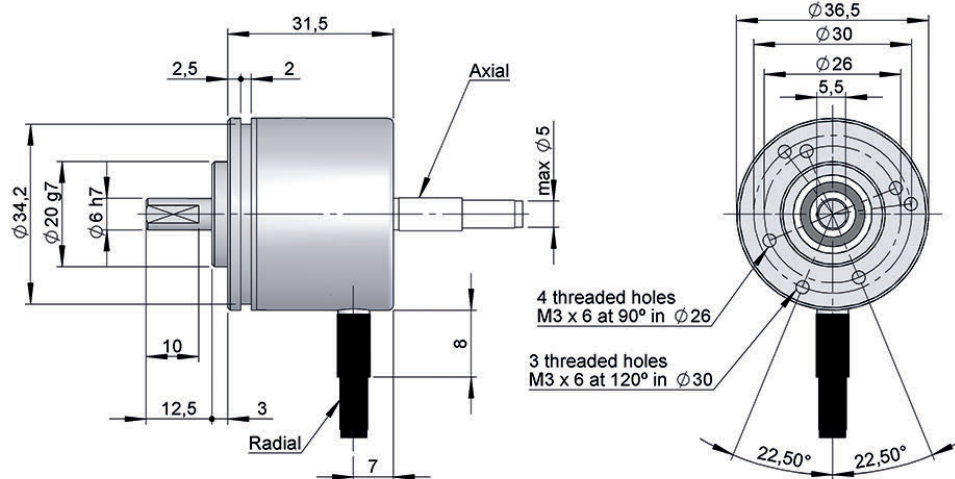




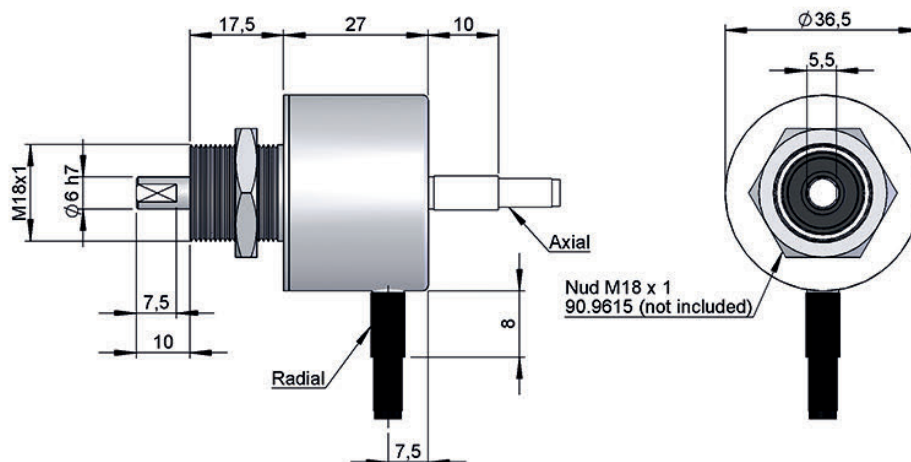
SERIE 36

MINIATURE SOLID SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

- Resolution up to 3600 pulses per turn
- External diameter 36,5 mm
- Shaft 6 mm
- Protection class IP65 according to DIN EN 60529
- Executions mechanical, electronic and special optics forms available on request
- Connection by cable (any cable length available) or industrial connector M12
- Female connector included



Drawing clamping, connection type 1/2



Drawing M18, connection type 1/2



SERIE 36

MINIATURE SOLID SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

REFERENCE

Reference example: 36-1311-3600

Serie	Mechanical Option	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer
36 -	☐	☐	☐	☐ -	☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐
	1. Clamping 2. M18	2. A+B 3. A+B+0 7. A $\tilde{A}$ +B $\tilde{B}$ +0 $\tilde{0}$ 8. A $\tilde{A}$ +B $\tilde{B}$	1. Axial cable 2. Radial cable 3. Radial 90.9508	0. 11...30V / NPN Open collector 11...30V 1. 11...30V / Line driver differential Push-Pull 11...30V 2. 5V / RS422 5V (compatible TTL)		RT00. -40°C

Order your reference
Step file 3D

info@encoderhohner.com

service available in 24 h

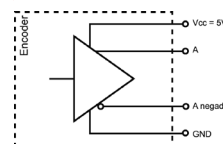
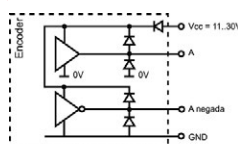
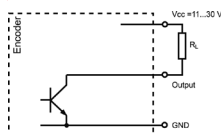
MECHANICAL SPECIFICATIONS

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	IP 64 - Standard cable IP 65 - Radial industrial connector M12 (90.9508) IP 65 - Radial cable output option with PG upon request
Rotor inertia moment	2 gcm ²
Starting torque at 20°C (68°F)	Max. 1 Ncm
Maximum load permitted on axial shaft	20 N
Maximum load permitted on radial shaft	40 N
Weight aprox.	0,08 Kg
Operating temperature range	-20°C to +80°C - Standard -40°C to +80°C - Special Customer RT00
Vibration	100 m/s ² (10Hz...2000Hz)
Shock	1000 m/s ² (6ms)
Maximum pulses per turn	3.600
Axial or radial connection	Cable 2 meters or industrial connector M12 (other cable lengths available on order) Female connector included

SERIE 36

MINIATURE SOLID SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

OUTPUT SIGNALS



OUTPUT CIRCUIT	NPN Open Collector	Push-Pull Differential	RS422 (TTL compatible)
Reference code	0	1	2
Power supply	11...30 V	11...30 V	5 V $\pm 5\%$
Output voltage	11...30 V	11...30 V	5 V
Consumption	40 mA	Typical: 45 mA Max: 150 mA	Typical: 70 mA Max: 150 mA
Max. load capability	40 mA	± 30 mA	± 20 mA
Lenght of cable allowed	50 m (a 24 V)	100 m	1200 m
"Low" signal level	$VOL < 0,4$ V (a 24 V)	$VOL < 2.5$ V	$VOL < 0,5$ V
"High" signal level	$VOH > 22$ V (a 24 V)	$VOH > V_{cc} - 3$ V	$VOH > 2.5$ V
Frequency	100 kHz	200 kHz	300 kHz
Short circuit protection	Not permanent	Yes	Yes
Protection against polarity inversion	Yes	Yes	No

Channel A leads (90° electric) channel B, view from the shaft, shaft rotating clockwise

CONNECTION



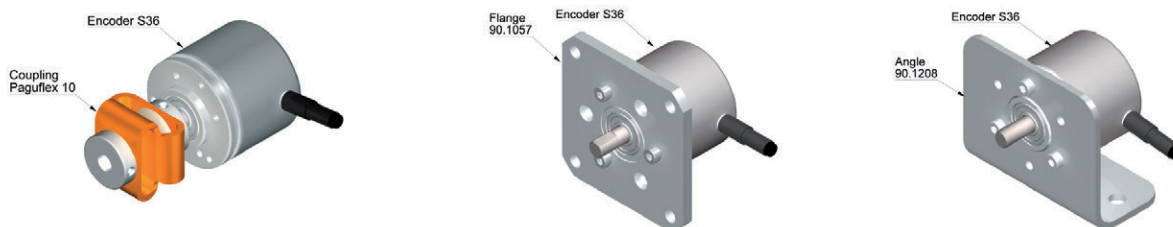
	95.0008051 (*) Cable 5x0,14	95.0008052 (*) Cable 8x0,14	90.9508 M12 8p ccw
GND	White	White	1
Vcc	Brown	Brown	2
A	Green	Green	3
B	Yellow	Grey	4
A inverted		Yellow	5
B inverted		Pink	6
0 (reference)	Grey	Blue	7
0 inverted	Grey	Red	8

(*) For lengths over 2 meters standard cable, we recommend the use of twisted pair cable 2x2x0,14+1x0,14 (95.0008002) or 3x2x0,14+2x0,34 (95.0008003). Request the final cable length required to avoid junctions.

SERIE 36

MINIATURE SOLID SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

ACCESSORIES EXAMPLES



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

CONNECTION DIMENSIONS

Female connector included

Connection 3
Radial 90.9508

90.9508
M12 8p
male panel
counter clockwise

