



SERIE 36

MINIATURE SOLID SHAFT INCREMENTAL ENCODER FOR INDUSTRIAL APPLICATIONS

- Resolution up to 10.000 pulses per turn
- External diameter 36,5 mm
- Shaft $\varnothing$ 6 mm
- Protection class IP65 according to DIN EN 60529
- Executions mechanical, electronic and special optics forms available on request
- Connection by cable (other cable length available) or industrial connector M12



Optical Encoder



Incremental Encoder



Miniature Encoder



Vibration and shock resistant



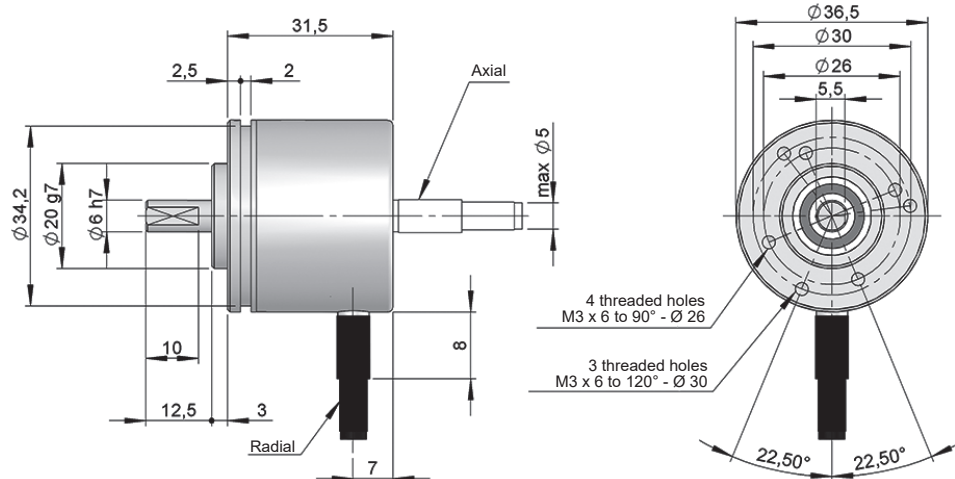
IP65



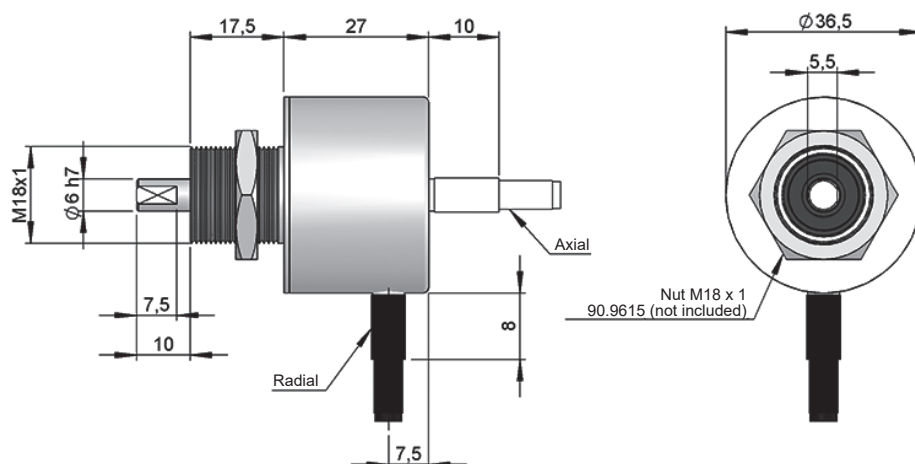
Temperature range - 40°C



Express Delivery



Drawing clamping, connection type 1/2



Drawing M18, connection type 1/2



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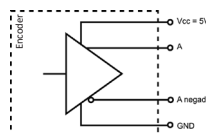
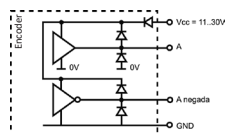
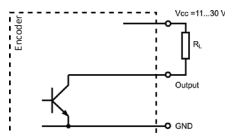
REFERENCE						Reference example: 36-1311-3600
Serie	Mechanical option	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer
36 -	☐	☐	☐	☐ -	☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐
	1. Clamping 2. M18	2. A+B 3. A+B+0 7. A $\tilde{A}$ +B $\tilde{B}$ +0 $\tilde{0}$ 8. A $\tilde{A}$ +B $\tilde{B}$	1. Axial cable 2. Radial cable 3. Radial M12 8p CCW	0. 11...30 VDC / NPN Open collector 11...30 VDC 1. 11...30 VDC / Line driver differential Push-Pull 11...30 VDC 2. 5 VDC / RS422 5 VDC (compatible TTL)		RT00. -40°C
						Order your reference Step file 3D info@encoderhohner.com <i>service available in 24 h</i>

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 IP 65 - Radial cable output option with PG upon request
Rotor inertia moment	2 gcm ²
Starting torque at 20°C (68°F)	≤ 0,01 Nm
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 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)
Maximum pulses per turn	10.000
Axial or radial connection	2 meters cable or industrial connector M12 (other cable lengths available on order) Female connector not included

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OUTPUT SIGNALS



OUTPUT CIRCUIT	NPN Open Collector	Push-Pull Differential	RS422 (TTL compatible)
Reference code	0	1	2
Power supply	11...30 VDC	11...30 VDC	5 VDC ±5%
Output voltage	11...30 VDC	11...30 VDC	5 VDC
Consumption	40 mA	Typical: 45 mA Max: 150 mA	Typical: 70 mA Max: 150 mA
Max. load capability / channel	40 mA	±30 mA	±20 mA
Length of cable allowed	50 m (24 VDC)	100 m	1200 m
"Low" signal level	VOL < 0.4 VDC (24 VDC)	VOL < 2.5 VDC	VOL < 0.5 VDC
"High" signal level	VOH > 2.2 VDC (24 VDC)	VOH > VCC – 3 VDC	VOH > 2.5 VDC
Frequency	100 kHz	200 kHz	300 kHz
Short circuit protection	Not permanent	Yes	Yes
Protection polarity inversion	Yes	Yes	No

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

CONNECTION



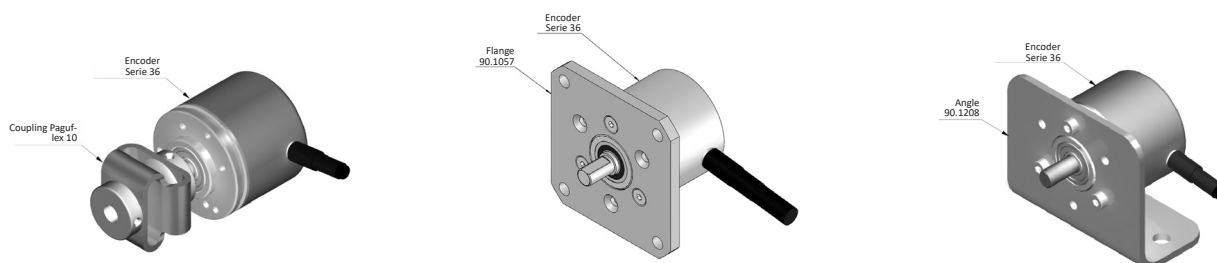
	Cable (*) 5x0,14 95.0008051	Connector (*) Cable 8x0,14	Connector M12 8p CCW
GND	White	White	1
VCC	Brown	Brown	2
A	Green	Green	3
B	Yellow	Grey	4
~A		Yellow	5
~B		Pink	6
0 (reference)	Grey	Blue	7
~0	Grey	Red	8

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

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ACCESSORIES EXAMPLES



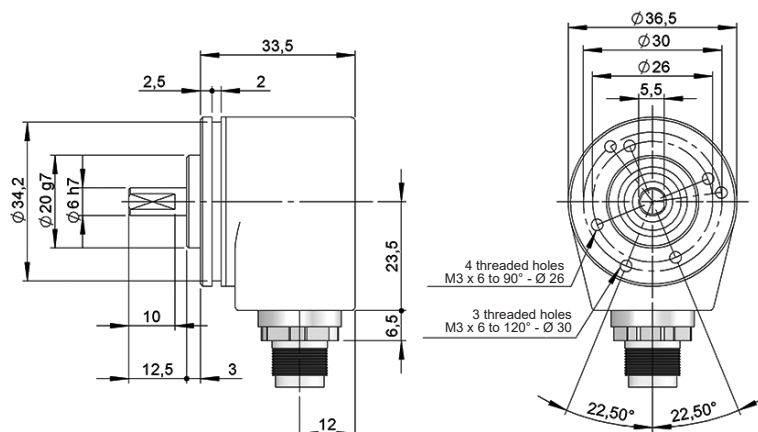
All the accessories available in the section "MOUNTING ACCESSORIES".

CONNECTION DIMENSIONS

Female connector not included

Connection 3
Radial

M12 8p
male panel
counter clockwise



Female connector
95.0007152

