INDUcoder

Euro Encoder ED 36

Optical incremental encoder
every resolution up to 3600 pulses / revolution, protection IP 65
Small and efficient

Resolution

Every resolution from (Pulses/Revolution):
1 - 3600

Type explanation

ED 36-3-2500-30-P-RC07	
Encoder type	Incremental
Flange diameter	ø 36 mm
Case diameter	ø 35 mm
Number of channels	3 = A + B + M 6 = AA + BB + MM
Resolutions	xxxx = Impulse pro Umdrehung
Supply voltage	05 = 5 VDC ± 5% 30 = 10 ... 30 VDC
Output driver	D-RS422 P
Position of connection	R S
Connector	C07 = 7 pins Binder C12 = 12 pins M23
Shaft diameter	ø 4 mm

Technical data

Mechanical data	
Rotational speed	? 10000 min^{-1}
Moment of inertia	10 g cm^2
shaft loading	? 10 N radial ? 5 N axial
Angular acceleration	? 10^5 rad/sec^2
Weight	? 0,1 kg

Environmental conditions	
Vibration	200 ms^{-2} (20 .. 2000 Hz)
Shock	2000 ms^{-2} (11 ms)
Operating temperature	0 ... +80°C
Storage temperature	-30 ... +80°C
Atmospheric humidity	? 85% r.h.
Protection class	IP 65 (DIN 40050/IEC 144)

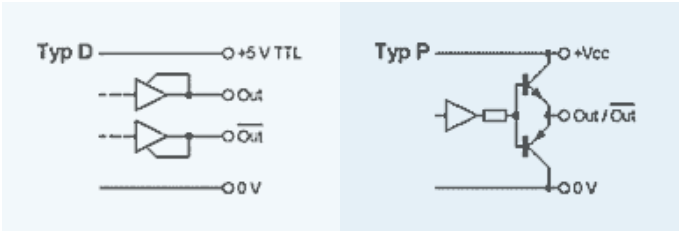
Electrical data	
Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Transistor
Supply voltage	Vcc = 5 VDC ±5% Vcc = 10 ... 30 VDC
Power consumtion	150 mA max.
Output frequency	? 300 kHz (Output D) ? 160 kHz (Output P)
Signal level	High > Vcc -2 V Low < 0,5 V (20 mA)
Load capacity of the outputs	20 mA

Cable 3 channels	
Wire colour	**Signal**
Brown	+Vcc
Grey	0 V GND
Green	Signal A
White	Signal B
Yellow	Signal M
Shield	N.C.

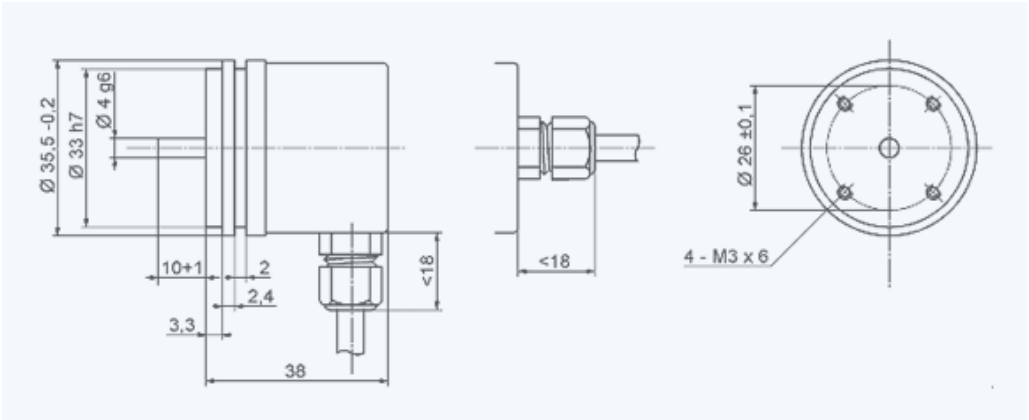
Cable 6 channels	
Wire colour	**Signal**
Brown/Green	+Vcc
Blue	+Vcc Sense [1)]
White/Green	0 V GND
White	0 V Sense
Brown	Signal A+
Green	Signal A-
Grey	Signal B+
Pink	Signal B-
Red	Signal M+
Black	Signal M-
Shield	N.C.

1) nur bei Vcc = 5 VDC TTL

Output driver



Outline drawing



Version E519-110 · Subject to change

INDUcoder® · INDUcoder Messtechnik GmbH, Kaiserstraße 316, 47178 Duisburg, Deutschland
Tel: (0203) 57047-0, Fax: (0203) 57047-20, E-Mail: info@inducoder.de, Internet: www.inducoder.de