INDUcoder

Mini No Shaft Encoder EDH 26

Optical incremental encoder with hollow shaft
every resolution up to 2500 pulses per revolution
Small and efficient

Resolution

Every resolution from (Pulses/Revolution):
1 - 2500

Type explanation

EDH 26-3-2500-30-P-RC07/Ø4	
Encoder type	Incremental
Flange diameter	ø 26 mm
Case diameter	ø 26 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 6 mm

Technical data

Mechanical data	
Rotational speed	? 10000 min^{-1}
Torque	? 0,4 Ncm
Moment of inertia	3 g cm^2
shaft loading	? 20 N radial ? 10 N axial
Angular acceleration	? 10^5 rad/sec^2
Weight	? 0,05 kg

Environmental conditions	
Vibration	100 ms^{-2} (20 .. 2000 Hz)
Shock	1000 ms^{-2} (11 ms)
Operating temperature	0 ... +80°C
Storage temperature	-30 ... +80°C
Atmospheric humidity	? 85% r.h.
Protection class	IP 54

Electrical data	
Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Array
Supply voltage	Vcc = 5 VDC ±5%
Dielectric strength of outputs	Vcc = 10 ... 30 VDC
Power consumtion	100 mA max.
Output frequency	? 300 kHz (Output D) ? 160 kHz (Output P)
Signal level	High > Vcc -2 V Low < 0,5 V
Load capacity of the outputs	20 mA kurzschlussfest (Output P)

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

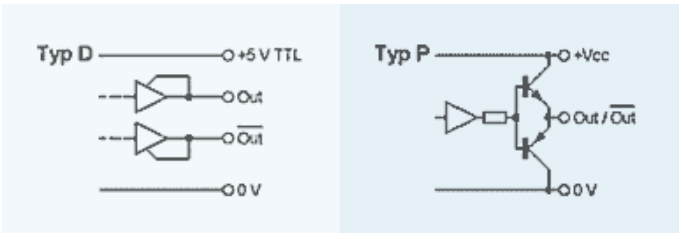
Cable 6 channels	
Wire colour	**Signal**
Brown/Green	+Vcc
White/Green	0 V GND
Brown	Signal A+
Green	Signal A-
Grey	Signal B+
Pink	Signal B-
Red	Signal M+
Black	Signal M-
Shield	N.C.

Connector 7 pinsBinder	
Connection	**Signal**
Pin 1	0 V GND
Pin 2	N.C.
Pin 3	Signal A
Pin 4	Signal B
Pin 5	+Vcc
Pin 6	Signal M
Pin 7	Shield

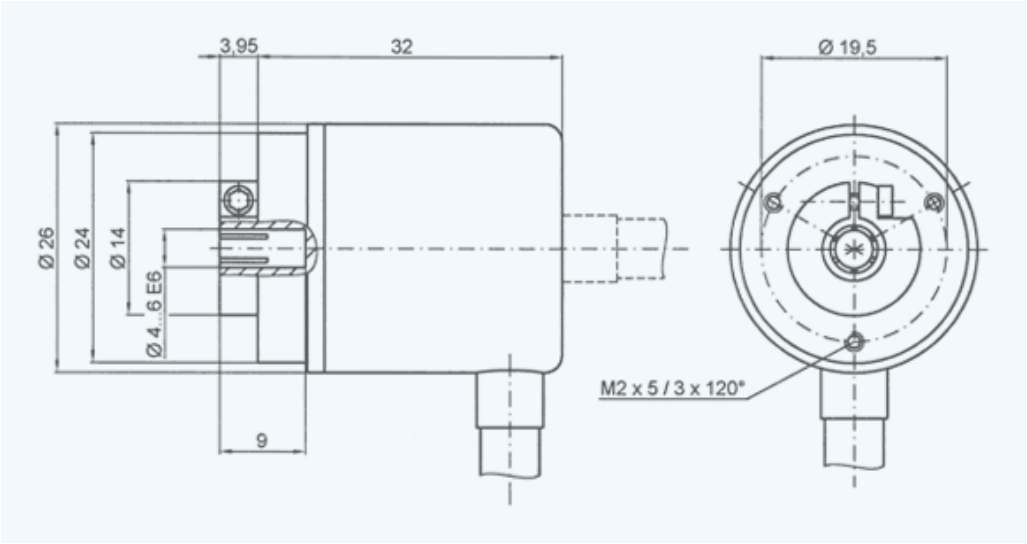
Connector 12 pins Binder	
Connection	**Signal**
Pin A	+Vcc
Pin B	+Vcc Sense [1)]
Pin C	0 V GND
Pin D	0 V Sense
Pin E	N.C.
Pin F	Signal A-
Pin G	Signal A+
Pin H	N.C.
Pin J	Signal B+
Pin K	Signal B-
Pin L	Signal M+
Pin M	Signal M-

1) nur bei Vcc = 5 VDC TTL

Output driver



Outline drawing



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