INDUcoder

Standard No Shaft Encoder EDH 76/EDH 761

Optical incremental encoder, Encoder with hollow shaft

Resolution

Resolution (Pulses/Revolution):			
1	4	10	12
50	100	128	157
180	200	250	256
350	360	375	400
500	512	600	720
1000	1024	1250	1500
1800	2000	2048	2160
2500	3600	4000	4096
4500	5000	5400	6000
7200	9000	10000	18000

Every other resolution up to 900 000 on request

Type explanation

EDH 76-6-2500-05-D-SC12/Ø27	
Encoder type	Incremental
Hollow shaft	Yes
Flange diameter	ø 76 mm
Case diameter	ø 76 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 S
Position of connection	S
Connector	C07 = 7 pins Binder C12 = 12 pins M23
Shaft diameter	ø 27 mm

Technical data

Mechanical data	
Rotational speed	? 8000 min^{-1}
Torque	? 1 Ncm
Breakaway torque	? 3 Ncm
Loading of bearings	20 N radial 10 N axial
Angular acceleration	? 10^4 rad/sec^2
Weight	? 0,7 kg

Environmental conditions	
Vibration	200 ms^{-2} (20 ... 2000 Hz)
Shock	2000 ms^{-2} (11 ms)
Operating temperature	0 .. +80°C standard -20 .. +110°C optional -42 .. +110°C optional
Atmospheric humidity	? 85% r.h.
Protection class	IP 00 IP 54 IP 65

Electrical data	
Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Transistor
Measurement accuracy	± 1' standard ± 5" optional
Supply voltage	Vcc = 5 VDC ±5% Vcc = 10...30 VDC
Power consumtion	200 mA max.
Output frequency	? 300 kHz (Output D) ? 160 kHz (Output P, S)
Signal level	High > Vcc -2 V (Output D, P) Low < 0,5 V (Output D, P) Analog 1 Vss (Output S)
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 0,5 mm²	+Vcc
Blue	+Vcc Sense [1]
White 0,5 mm²	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

Connector 7 pinsBinder

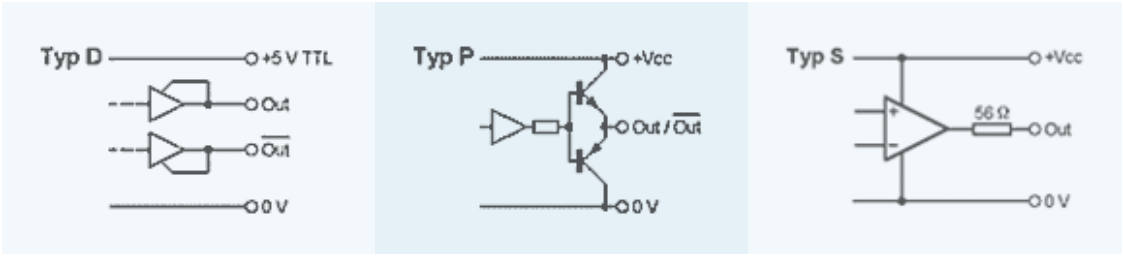
Connection	Signal
Pin 1	0 V GND
Pin 2	N.C.
Pin 3	Signal A
Pin 4	Signal B
Pin 5	+Vcc
Pin 6	Signal M
Pin 7	Shield

Connector 12 pins M23

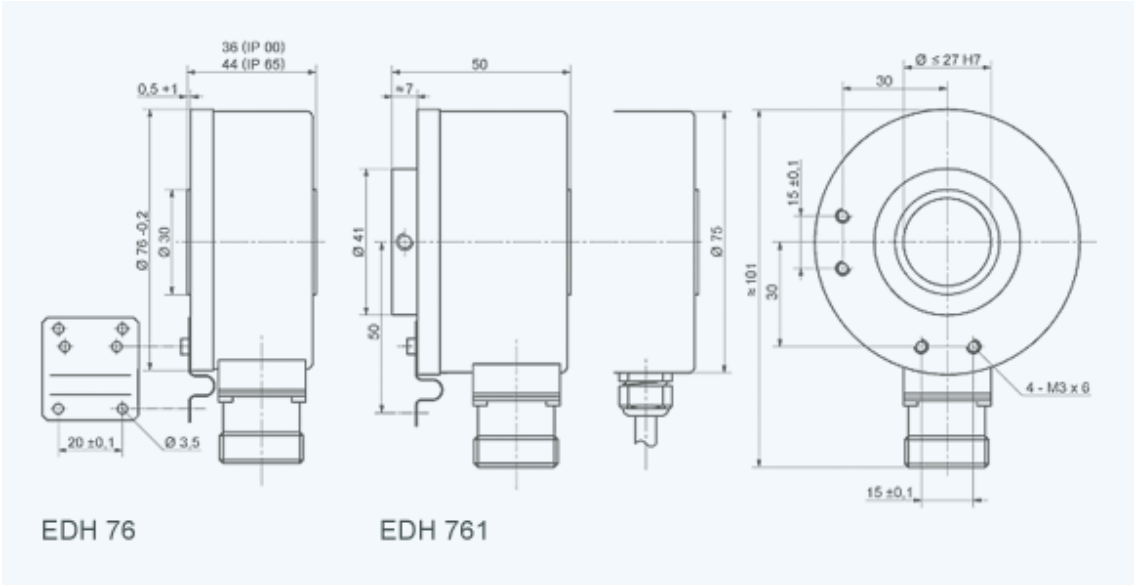
Connection	Signal
Pin 1	Signal B- [1]
Pin 2	+Vcc Sense [2]
Pin 3	Signal M+
Pin 4	Signal M- [1]
Pin 5	Signal A+
Pin 6	Signal A- [1]
Pin 7	N.C.
Pin 8	Signal B+
Pin 9	Shield
Pin 10	0 V GND
Pin 11	0 V Sense
Pin 12	+Vcc

1) nur bei 6 Ausgangskanälen
2) nur bei Vcc = 5 VDC TTL

Output driver



Outline drawing



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