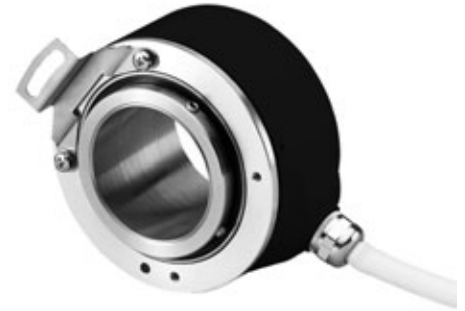


# INCREMENTAL ENCODER MyInc

# CINH76

- Through shaft with up to diameter 42 mm
- Short overall length with an outside diameter of only 76 mm
- Easy installation by means of clamping ring
- Operating temperature up to 100 °C
- Application e.g.:
  - motors
  - printing machines
  - lifts



## Mechanical characteristics:

Speed:	at 70 °C and IP 64: 3600 RPM for Ø 15...25 at 70 °C and IP 64: 1800 RPM for Ø > 25...42 at 70 °C and IP 40: 6000 RPM for Ø 15...42 at 100 °C always: 1800 RPM for Ø 15...42
Rotor moment of inertia:	1,4 ... 42 x 10 <sup>-6</sup> kgm <sup>2</sup>
Starting torque:	0,03 ... 0,10 Nm
Weight:	320-580 g
Protection acc. to EN 60 529:	IP 40 (option IP 64)
Working temperature:	-25 °C ... +100 °C
Shaft:	stainless steel
Shock resistance acc. to DIN-IEC 68-2-27:	1000 m/s <sup>2</sup> (6 ms)
Vibration resistance acc. to IEC 68-2-6:	100 m/s <sup>2</sup> (10 ... 2000 Hz)

## Available resolutions:

50, 100, 250, 300, 500, 600, 900, 1000, 1024, 1500, 2048, 2500, 3072, 4096, 5000, 9000, 10000

## Electrical characteristics:

Output circuit:	RS 422	Push-pull
Supply voltage:	5 VDC (± 10 %)	10 ... 30 VDC
Power consumption (no load)		
with inverted signals:	60 mA	60 mA
Permissible load/channel:	30 mA	30 mA
Pulse frequency:	max. 300 kHz	max. 200 kHz
Signal level high:	min. 2,5 V	min. U <sub>B</sub> -3 V
Signal level low:	max. 0,5 V	max. 2 V
Short circuit proof outputs: <sup>1)</sup>	no	yes
Reverse connection protection at UB:	no	yes

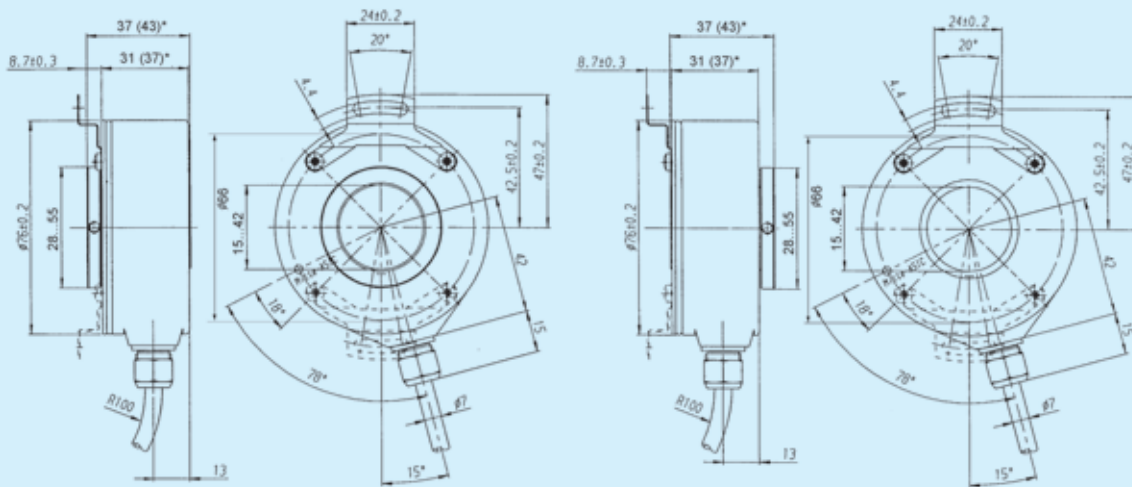
## Terminal assignment

Signal:	0V	0V Sensor	+U <sub>B</sub>	+U <sub>B</sub> Sensor	A	$\bar{A}$	B	$\bar{B}$	0	$\bar{0}$	Shield <sup>1)</sup>
Cable colour:	WH/GN	VT	BN/GN	BU	BN	GN	GY	PK	RD	BK	

<sup>1)</sup>connected to housing

## Dimensioned drawing

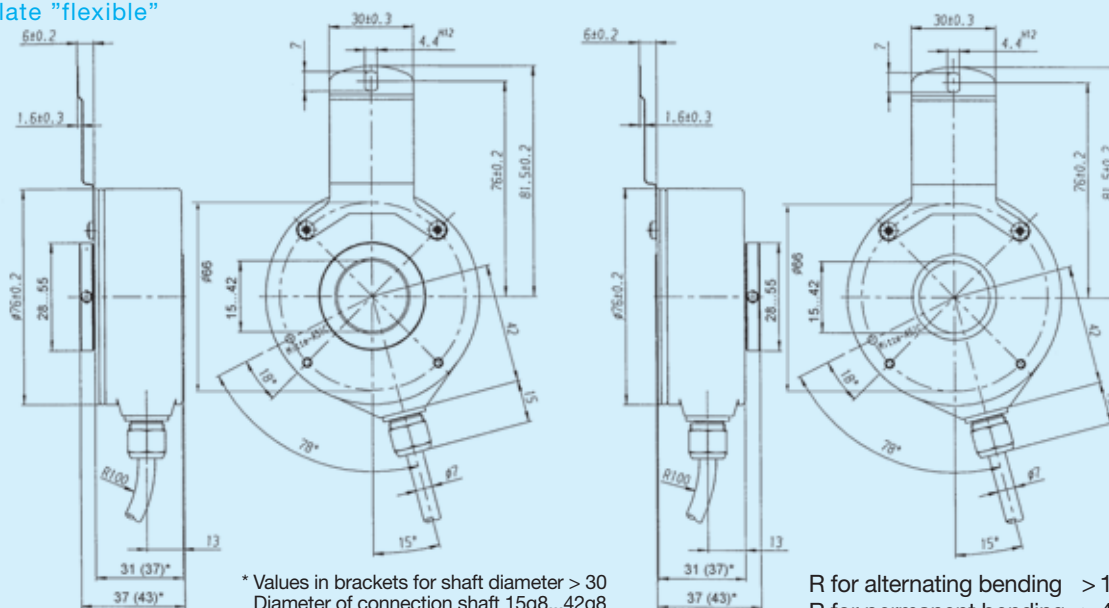
with spring plate "rigid"



\* Values in brackets for shaft diameter > 30  
Diameter of connection shaft 15g8...42g8

R for alternating bending > 100 mm  
R for permanent bending > 40 mm

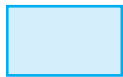
with spring plate "flexible"



\* Values in brackets for shaft diameter > 30  
Diameter of connection shaft 15g8...42g8

R for alternating bending > 100 mm  
R for permanent bending > 40 mm

## ORDERING CODE



CINH76



Mounting synchro  
flange with

D = Front clamping ring  
H = Rear clamping ring



Shaft  
diameter<sup>1)</sup>

15 ... 42  
in mm



Output circuit and  
supply voltage

A5 = Push-pull (with  
inverted signal)  
10 ... 30 V  
supply voltage

A7 = RS422 (with invert-  
ed signal) + Alarm,  
5 V  
supply voltage



Protection  
class

0 = IP 40  
4 = IP 64



Spring  
plate

O = without  
A = flexible  
N = rigid



Connection

3R = TPE-cable  
radial



Resolution

10000 max.

- <sup>1)</sup> Available with front clamping ring and IP 40: 15, 20, 24, 25, 27, 28, 30, 38, 40, 42, 50  
Available with front clamping ring and IP 64: 15, 16, 18, 20, 24, 25, 27, 28, 30, 32, 38, 40, 42  
Available with rear clamping ring and IP 40: 25, 28, 30, 32, 38, 40, 42  
Available with rear clamping ring and IP 64: 20, 25, 30, 32, 38, 40, 42



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