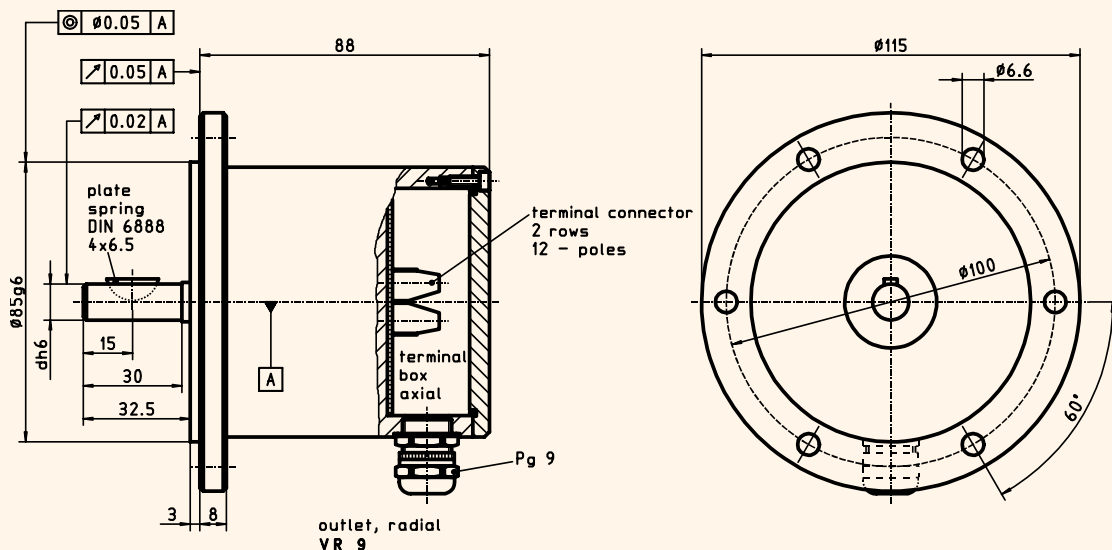
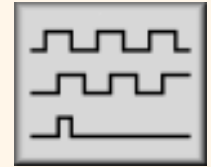


Incremental Encoder with shaft ITD 40 B10 Y 2



Qualities :

- Robust incremental encoder
- **Number of pulses**, up to **1024** pulses per revolution
- *Euro-flange* mounting
- Centering seat $\varnothing 85$, mounting punch circle $\varnothing 100$
- TTL- or HTL-output signals
- Spacious cable-box, axial



ITD 40 B10 Y 2

drawing-no.: 025 - 7 Y 2

Mechanical data:

Housing		light-alloy metal, unpainted
Design style	B10	B10
Protective class	IP65	IP 65
Construction principle		OPSiC with slotdisc
max. revolution (mechanical)	n_{max}	≤ 8000 rpm
Admissible shaft load	axial	≤ 40 N
	radial	≤ 60 N
Starting torque	at 20 ° C	≤ 1.2 Ncm
Vibration	55... 2000 Hz	≤ 100 m/s ²
Shock	11 ms	≤ 1000 m/s ²
Moment of inertia (rotor)		approx. 60 gcm ²
Shaft diameter	d	11 mm
Weight		approx. 1050 g

Incremental Encoder with shaft

ITD 40 B10 Y 2



Electrical data:

• Number of pulses	Z	XXXX	100, 180, 200, 360, 400, 500, 512, 720, 1000, 1024 pulses / rev.
• Execution of electronic	TTL	T	TTL-output signals supply voltage: $U_B = 5 \text{ VDC} \pm 5\%$ (poling error safe)
	HTL	H	HTL-output signals supply voltage: $U_B = 8 - 30 \text{ VDC}$ (poling error safe)
• Output signals	A, B + Inv.	BI	2 square-wave pulse trains phase shifted by $90^\circ (\pm 10^\circ)$ electr. + inverting pulse : pause = 1 : 1
Pulse ratio			$\geq 15 \text{ V}/\square\text{s}$
Flank steepness			
Frequency limit	f_G		120 kHz
Output load current	I_{Load}		$\leq 70 \text{ mA}$
Input current	I_{max}		$\leq 100 \text{ mA}$ (without load)
Permissible cable length			$\leq 100 \text{ m}$ (Thalheim-cable)
• Type of connection		VR9	cable-box, axial, PG9-outlet, radial
• Operating temperature range		S	- 20 °C to + 70 °C

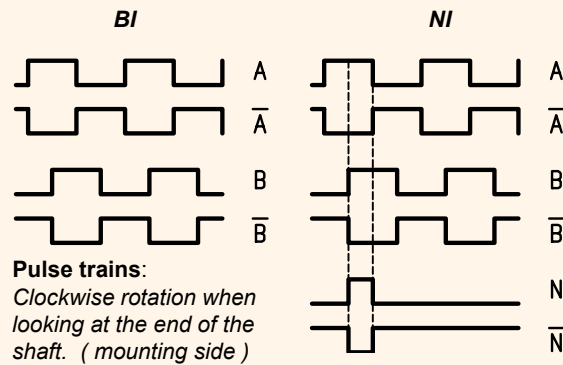
Options:

• Execution of electronic		R	TTL-output signals supply voltage: $U_B = 8 - 30 \text{ VDC}$ (poling error safe)
• Output signals	A, B, N + Inv.	NI	2 square-wave pulse trains + zero pulse, 90° electr. + inverting
• Operating temperature range		E	- 20 °C to + 100 °C

Connection table:

terminal		signals
PIN 3	=	A
PIN 4	=	A inverted
PIN 5	=	B
PIN 6	=	B inverted
PIN 7	=	N
PIN 8	=	N inverted
PIN 2	=	+ U_B
PIN 1	=	0 V
PIN 10	=	+ U_{sensor}
PIN 9	=	0 V _{sensor}
PIN 11	=	NC
PIN 12	=	shilding/housing

Output signal diagram:



Ordering example:

ITD 40	B10	Y 2	1024	H	BI	VR9	S	11	IP65	
Incremental encoder ITD 40	Design style B10	Mechanical variante Y 2 = look at the drawing	Number of pulses 1024 pulses / revolution	Execution of electronic $U_B = 8-30 \text{ VDC HTL-output}$	Output signals A-, B-track + inverting	Type of connection cable-box, axial, Pg 9-outlet, radial	Operating temperature 20 °C to +70 °C	Shaft diameter 11 mm	Protective class IP 65	Attachment kit variante