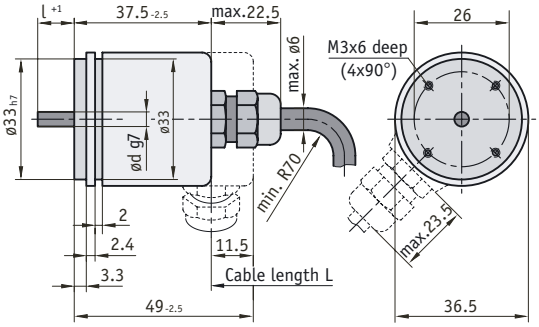
Incremental encoder IV36
Solid shaft

IV36 - the little one! An incremental encoder with solid shaft for installation in the smallest space and to fulfil the highest demands.



Features:

- resolution max. 3600 pulses/revolution
- small, compact design
- IP65 type of protection
- shaft diam. 4 and 6 mm

Feature	Order text		Technical data	Additional information
Pulses/revolution	...	A	15, 50, 60, 90, 100, 180, 200, 250, 300,	
			314, 360, 400, 500, 600, 625, 635, 720,	
			900, 1000, 1024, 1080, 1200, 1250, 1500,	
			1600, 2000, 2500, 3600	
Connection type	**E1**	B	stripped cable ends	
Position of electrical connection	**A**	C	axial	
	R		radial	
Cable length L [m]	**2.0**	D	1.0, 2.0, 3.0, 5.0, 8.0, 10.0	
Output circuit	OP	E	push-pull with additional inverted signals	
	LD		RS422, 5 V DC operating voltage	
	LD24		RS422, 24 V DC operating voltage	
Shaft diam. x length [mm]	4 x 10	F	d x l	
	6 x 10			

Mechanical data		
Speed	max. 12000 min^{-1}	
Rotor moment of inertia	approx. 0.27 x 10^{-6} kgm^2	
Starting torque	< 0.007 Nm	
Load capacity of shaft	radial 10N, axial 5N	
Weight	approx. 0.1 kg	
Type of protection	IP 65	according to EN 60 529
Working temperature	0 °C ... +70 °C	
Shaft	stainless steel	
Cable sheath	PVC	
Shock resistance	1000 m/s^2, 6 ms	according to DIN-IEC 68-2-27
Vibration resistance	100 m/s^2, 10 ... 2000 Hz	according to DIN-IEC 68-2-6

Electrical data	**OP**	**LD**	**LD24**
Output signals	AB0	AB0	AB0
Operating voltage	10 ... 30 V DC	5 V DC ±5%	10 ... 30 V DC
Power cons. without load (typ.)	80 mA	70 mA	70 mA
with inverting (max.)	150 mA	100 mA	100 mA
Permitted load/channel (max.)	± 30 mA	± 10 mA	± 10 mA
Pulse frequency (max.)	100 kHz	125 kHz	125 kHz
Signal level high (min.)	UB - 3 V	2.5 V	2.5 V
Signal level low (max.)	2.5 V	0.5 V	0.5 V
Rise time t_r (max.)	1 µs	200 ns	200 ns
Fall time t_f (max.)	1 µs	200 ns	200 ns
Short-circuit proof outputs	no	yes, only 1 channel *	yes, only 1 channel **

Other data	
Test mark	CE

* Short circuit towards other channels, 0V or +UB permitted

** Short circuit towards other channels, or 0V permitted

Your order data: IV36 – [A] – [B] – [C] – [D] – [E] – [F]