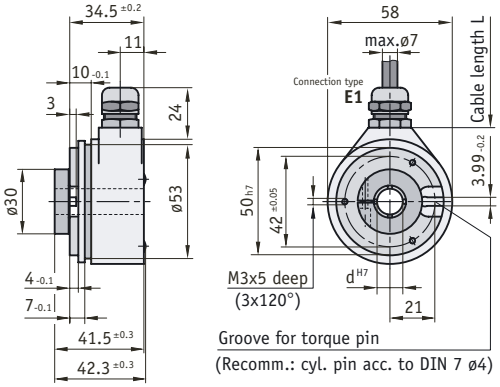
Incremental encoder IH58
Hollow shaft

IH58 - the universal one! - As a result of its compact design, it makes possible not only quick but also universal mounting.

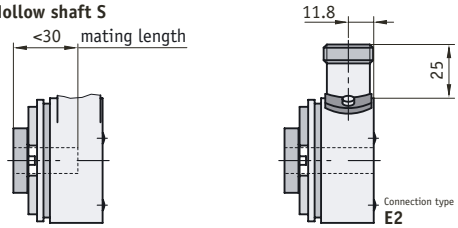
Features:

- resolution max. 5000 pulses/revolution
- easy installation
- high type of protection: IP66
- through hollow shaft up to diam. 15 mm
- compact design



Hollow shaft D

Hollow shaft S



Feature	Order text		Technical data	Additional information
Pulses/revolution	...	A	10, 20, 25, 30, 50, 60, 100, 120, 125, 127,	
			150, 180, 200, 216, 240, 250, 254, 256,	
			300, 314, 360, 375, 400, 500, 512, 600,	
			625, 720, 745, 750, 762, 800, 900, 927,	
			1000, 1024, 1250, 1270, 1400, 1500, 1800,	
			2000, 2048, 2250, 2400, 2500, 3000, 3600,	
			4000, 4096, 5000	
			others on request	
Connection type	**E1**	B	stripped cable ends	
	E2		connector	mating connector available as an accessory, article no. 81273
Cable length L [m]	**2.0**	C	1.0, 2.0, 3.0, 5.0, 8.0, 10.0	
	OK		without cable (only E2)	
Output circuit	PP	D	push-pull	
	OP		push-pull with additional inverted signals	
	LD		RS422, 5 V DC operating voltage	
	LD24		RS422, 24 V DC operating voltage	
Hollow shaft	D	E	through	
	S		blind hole	
Hollow shaft diam. [mm]	6	F	d	
			8, 10, 12, 14, 15	
Type of protection	66	G	IP66	according to EN 60 529
	40		IP40	according to EN 60 529
Working temperature	T1	H	-20 °C ... +70 °C	PVC cable sheath
	T2		-20 °C ... +85 °C	PVC cable sheath
	T3		-20 °C ... +105 °C	TPE cable sheath
	T4		-20 °C ... +80 °C	PVC cable sheath
	T5		-20 °C ... +90 °C	TPE cable sheath

Mechanical data		
Speed	IP40 max. 12000 min^{-1}, IP66 max. 6000 min^{-1}	
Rotor moment of inertia	approx. 6 x 10^{-6} kgm^2	
Starting torque	IP40 < 0.01 Nm, IP66 < 0.05 Nm	
Weight	approx. 0.4 kg	
Shaft	stainless steel	
Shock resistance	2000 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	**PP**	**OP**	**LD**	**LD24**
Output signals	AB0	AB0	AB0	AB0
Operating voltage	10 ... 30 V DC	10 ... 30 V DC	5 V DC ±5%	10 ... 30 V DC
Power cons. without load (typ.)	55 mA			
without inverting (max.)	125 mA			
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	± 30 mA	± 20 mA	± 20 mA
Pulse frequency (max.)	300 kHz	300 kHz	300 kHz	300 kHz
Signal level high (min.)	UB - 3 V	UB - 3 V	2.5 V	2.5 V
Signal level low (max.)	2.5 V	2.5 V	0.5 V	0.5 V
Rise time t_r (max.)	1 µs	1 µs	200 ns	200 ns
Fall time t_f (max.)	1 µs	1 µs	200 ns	200 ns
Short-circuit proof outputs	yes	yes	yes, only 1 channel *	yes, only 1 channel **
Polarity protection on UB	yes	yes	no	yes

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: IH58 – [A] – [B] – [C] – [D] – [E] – [F] – [G] – [H]