

Optical encoder systems.

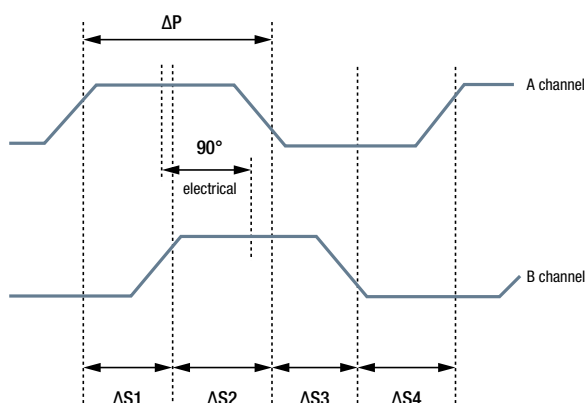


- Opto-electronic 2- and 3-channel incremental encoder.
A corresponding evaluation in an external controller will achieve a resolution of max. 2048 increments per revolution
- The encoder is contactor-less and wear-free. The rotary angle resolution is achieved by means of an LED, a metallic encoder disk and a photo-diode array
- Electrical protection IP 40
- Temperature range -40°C to +100°C
- Additional resolutions and interfaces possible

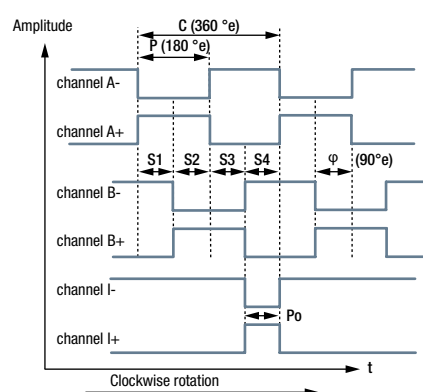
Important! Do not use in applications in which failure of the encoder interferes with the safety-relevant functions. If in doubt, consult the manufacturer.

Encoder systems			
		HEDS 5500	PWB AE30
No. of pulses Z		512 per revolution (channel A and B)	512 per revolution (channel A and B)
Output signal A, B		2 rectangular signals (90° phase offset; TTL-compatible)	3 rectangular signals, channel A, B (90° phase offset) and index
Reaction frequency [f]		100 kHz	100 kHz
Supply voltage [U _p]	V	+ 5 ± 10%	+ 5 ± 10%
Power consumption [I _p]	mA	type 17 max. 40	max. 110 mA
Deviation, pulse width [Δ _s]		type 5° (from electrical 90°)	type 5° (from electrical 90°)
Deviation, phase shift [Δ _p]		type 7° (between channel A and B from electrical 90°)	max. ± 20°
Index pulse width		–	90° ± 30° elec.
Electrical connection		AMP: 103686-4 or 600442-5	Molex 53048-0810
Connector type		Berg: 65039-032 with 4825X-000 terminals or 65801-034 Molex: 2695 with 2759 terminals	Molex: 51021-0800 with contact 50079-8000
Weight	kg	0.02	0.02
Subject to alterations			
Preferred type: ready to ship in 48 hours			

Signal processing HEDS 5500

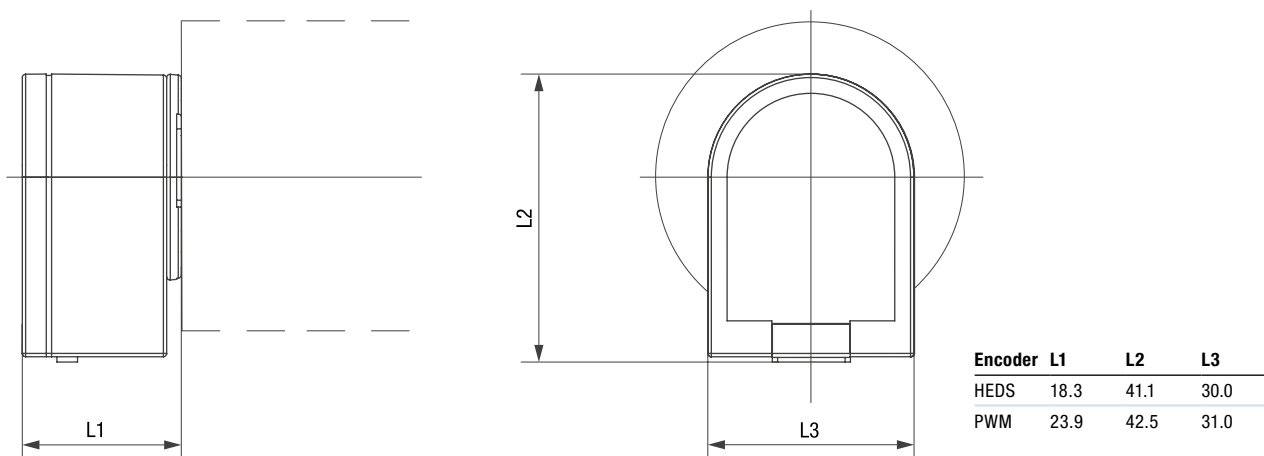


Signal processing PWB AE30



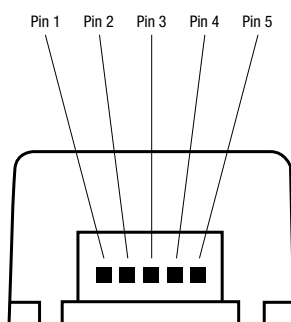
Technical drawing

All dimensions in mm

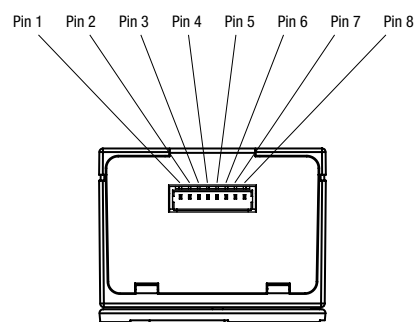


Electrical connection

HEDS 5500



PWB AE30



Signal wire

Pin	Function
1	GND
2	n.c.
3	A
4	U _B
5	B

Signal wire

Pin	Function
1	GND
2	A-
3	A+
4	B-
5	B+
6	I-
7	I+
8	Vcc