

# ECI-Sensor

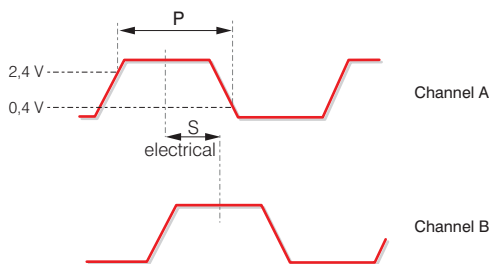
## Encoder HEDS 5500



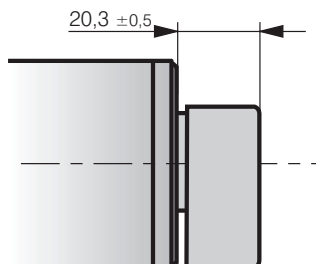
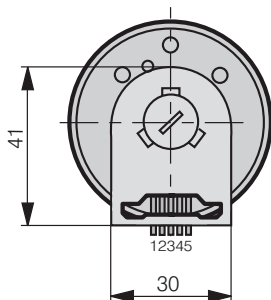
- Optoelectronic 2-channel incremental encoder. A resolution of max. 2.048 increments per revolution is attained by appropriate evaluation in an external control.
- The encoder works contact-free and free from wear. The resolution of the angle of rotation is effected by means of a light-emitting diode in front of a metal encoder disc and a photo-diode array.
- Optional: Variants with other encoder resolutions are available on request.

### Nominal Data

Type	HEDS 5500	
No. of pulses	Z	512 per revolution (channel A and B)
Output signal	A, B	2 rectangular-pulse signals, (90° phase offset; TTL compatible)
Limiting frequency	f	100 kHz
Supply voltage	$U_B$	+ 5 V ± 10%
Current consumption	$I_B$	typ. 17 mA (max. 40 mA)
Deviation of pulse width	$\Delta P$	typ. 5° related of $P = 90^\circ$ pulse width (electrically by $U_B = 5\text{ V}$ and $25^\circ\text{ C}$ )
Deviation of phase shift	$\Delta S$	typ. 7° related of $S = 90^\circ$ phase shift between channel A and B (electrically by $U_B = 5\text{ V}$ and $25^\circ\text{ C}$ )
Electrical connection	AMP	103686-4 or 600442-5
Plug type	Berg	65039-032 / 4825-000
	Molex	or 65801-034 2695 / 2759
Connection table	Pin	1: Ground   2: free   3: A   4: $U_B$   5: B



Motors with HEDS available on request!



**Note:**  
Only one accessory component (brake or sensor) can be mounted onto a motor at a time.