














INCREMENTAL ENCODER OVERVIEW

Incremental Encoders are the most common types used in the industry due to the simplicity of their use. Each encoder is comprised of an optical disc with the required number of lines together with an (HRS) reading system coupled with a single L.E.D. for longer life, reliability and enhanced performance. Either speed or relative position can be determined by monitoring the frequency or the number of pulses generated by the encoder.

	<i>IS 240</i>	<i>IS 280</i>	<i>IS 410</i>	<i>IS 580</i>	<i>IS 581</i>	<i>IS 700</i>
						
Type-Size	28 mm	28 mm	41 mm	58 mm	58 mm	70 mm
Available Solid Shaft Sizes	4 mm 6 mm	1/4" 4mm or 6 mm	6 mm, 1/4"	1/4" or 6 mm 3/8" or 10 mm	1/4" or 6mm 3/8" or 8mm or 10mm	3/8" or 10 mm 1/2" or 12mm
Mechanical Options	—	—	stainless steel	stainless steel	stainless steel	—
Connector Location	axial radial	axial radial	axial radial	axial radial	axial radial	axial radial
Output Signals	A+B+0 A+B+0+Complim.	A+B+0 A+B+0+Complim.	A+B+0 A+B+0+Complim.	A+B+0 A+B+0+Complim.	A+B+0 A+B+0+Complim.	A+B+0 A+B+0+Complim.
Output Circuit Type	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
Pulses Per Revolution	1-1024	1-1024	1-10000	1-25000	1-25000	1-25000
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	<i>IS 900</i>	<i>IH 490</i>	<i>IH 510</i>
			
Type-Size	90 mm	49 mm	51 mm
Available Solid Shaft Sizes	3/8" or 10 mm 1/2" or 12 mm	1/4" or 6 mm 8 mm	1/4" or 6 mm
Mechanical Options	—	stainless steel	—
Connector Location	axial radial	radial	radial
Output Signals	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.
Output Circuit Type	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
Pulses Per Revolution	1-25000	1-3600	1-1250
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<i>IH 581</i>	<i>IH 740</i>	<i>IH 840</i>	<i>IH 950</i>	<i>IH 951</i>	<i>IH 103</i>	<i>IH 120</i>
						
58 mm (2.28")	74 mm (2.91")	84 mm (3.30")	95 mm (3.74")	95 mm (3.74")	103 mm (4.05")	120 mm (4.72")
1/4" or 6 mm 3/8" or 10 mm 1/2" or 12 mm	1/4" or 3/8" or 1/2" 6 mm, 8 mm, 10 mm, 12 mm, 16 mm or 18 mm	15 mm (Plastic Shaft)	5/8" to 1" or 14-30 mm	5/8" to 1" or 14-30 mm	1.25" to 1.5" or 30-40 mm	1.5" to 2.5" or 65 mm
—	stainless steel	—	stainless steel	stainless steel	stainless steel	—
radial	radial	radial	radial	radial	radial	radial
A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.	A+B+O A+B+O+Complim.
4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull	4,75-30 VDC Push Pull
1-10000	1-25000	1-36002.28	1-25000	1-25000	1-50000	1-50000
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