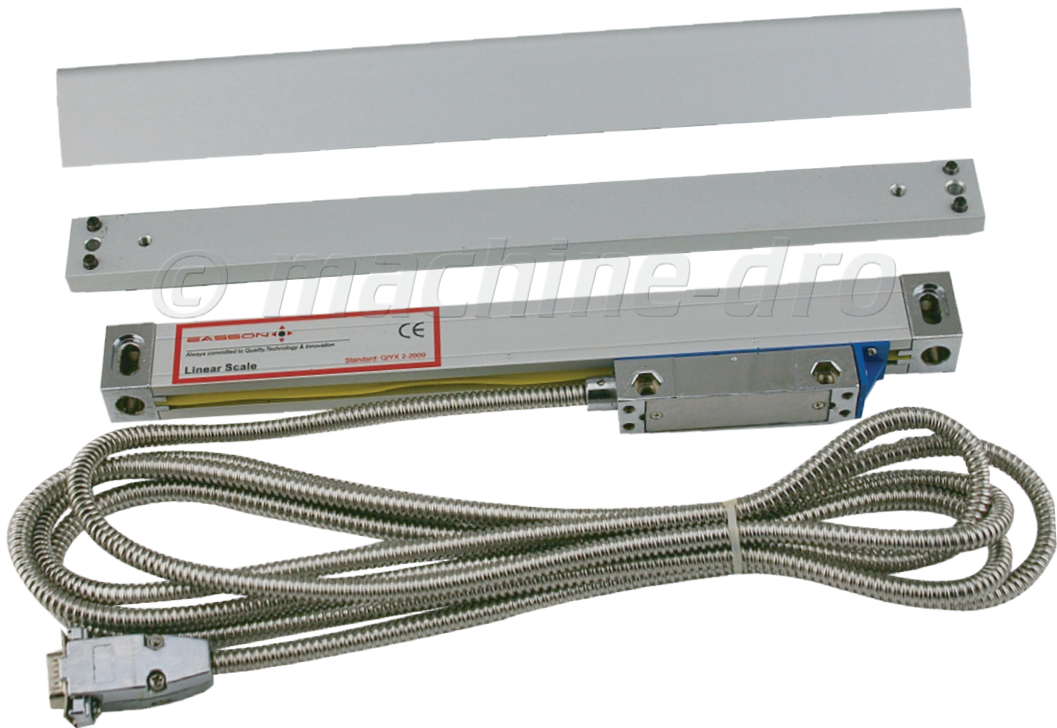




GS10 Linear Encoder Technical

Part No: GS300 Series
Doc V: 1.1

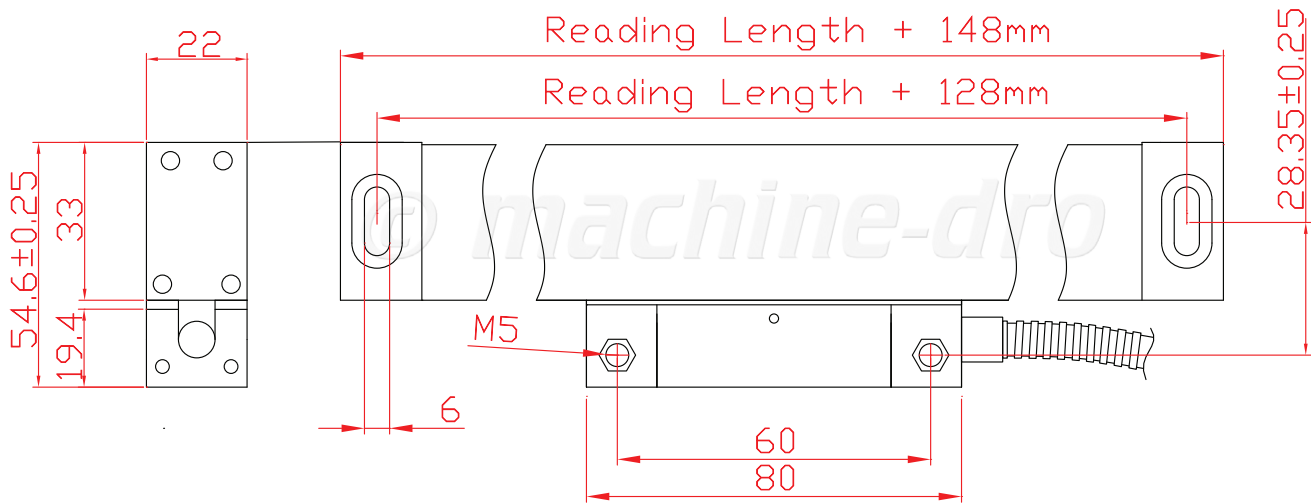
- The Easson GS10 Optical encoder for common linear measurement applications on machine tools and inspection equipment.
- Double lip seals offer superior oil resistance.
- 100 to 1200mm reading lengths available.
- Accuracy test report included.
- Mounting bolt kit included.
- Scale cover included.
- 1 year Warranty.



Technical Specifications

Specifications	
Encoder type	Optical (Glass)
Resolution	5 micron (other resolutions also available, please contact us for details)
Accuracy (@20°C)	
0~450mm	±0.006mm
500~800mm	±0.010mm
1050~1200mm	±0.015mm
Repeatability	±2µm
Grating Period	20µm
Maximum reading speed	60 metres per minute
Cable length	3 metres flexible armored
Scale length requirement	Reading length +148mm
Protection class	IP53 (when installed as per instructions)
Output Signal	5 volt TTL Quadrature
Reference mark	Every 50mm
Working temperature	0 ~ 50°C
Storage temperature	-20 ~ 70°C
Relative Humidity	20% to 85% Non-condensing





Model Number	Reading Length		Mounting Holes		Overall Length	
	mm	inch	mm	inch	mm	inch
DRO-ES-10-100	100	4	228	-	248	9 3/4
DRO-ES-10-150	150	6	278	-	298	11 3/4
DRO-ES-10-200	200	8	328	-	348	13 3/4
DRO-ES-10-250	250	10	378	-	398	15 11/16
DRO-ES-10-300	300	12	428	-	448	17 1/4
DRO-ES-10-350	350	13 3/4	478	-	498	19 5/8
DRO-ES-10-400	400	15 3/4	528	-	548	21 5/8
DRO-ES-10-450	450	16 1/2	578	-	598	23 9/16
DRO-ES-10-500	500	18 1/2	628	-	648	25 1/2
DRO-ES-10-550	550	20 1/2	678	-	698	27 1/2
DRO-ES-10-600	600	23 3/4	728	-	748	29 7/16
DRO-ES-10-650	650	25 1/2	778	-	798	31 7/16
DRO-ES-10-700	700	27 1/2	828	-	848	33 3/8
DRO-ES-10-750	750	29 1/2	878	-	898	35 3/8
DRO-ES-10-800	800	31 1/2	928	-	948	37 5/16
DRO-ES-10-850	850	33 1/2	978	-	998	39 5/16
DRO-ES-10-900	900	35 1/2	1028	-	1048	41 1/4
DRO-ES-10-950	950	37 1/2	1078	-	1098	43 1/4
DRO-ES-10-1000	1000	39 1/2	1128	-	1148	45 3/16
DRO-ES-10-1100	1100	43 1/4	1228	-	1248	49 1/8
DRO-ES-10-1200	1200	47 1/4	1328	-	1348	53 1/16

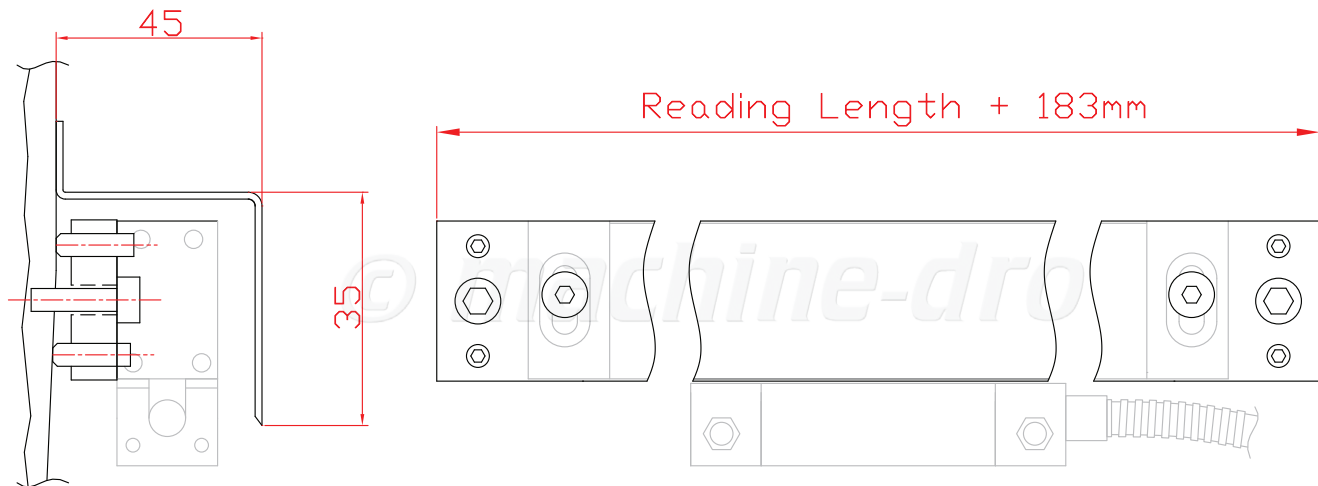




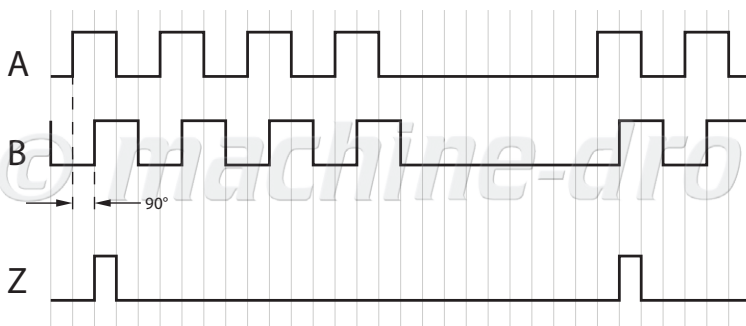
Backing Spar and Protective Cover

A rigid aluminum backing spar is included with the Easson GS10 scales that have less than 500mm reading length, this can be mounted to the machine first and has jacking screws to allow simple level adjustment.

An extruded aluminum cover is also included with all reading lengths this fits over the encoder to offer further protection from knocks, swarf and coolant.



Output Signal



- Fitted with 9 pin male D type connector for encoder input.
- For encoder compatibility please check compatibility chart datasheet.

	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Signal	N/C	0v	N/C	Screen	N/C	A	+5v	B	Z

