

A safe choice: draw-wire mechanisms for encoders.



Encoders



Precise position detection including over long distances.

High operational reliability thanks to robust mechanical construction even under permanent strain.

Mechanically compatible across manufacturers, for encoders with synchro flange.

Compact design even with rope spans up to 15 m.







Exact positioning including over long distances

Draw-wire mechanisms for encoders are the ideal choice when positions must be accurately determined over straight distances. Examples of use range from short distances, for example with scissor lifts or fork lift trucks, to long distances, such as those covered by trolleys on crane booms or transport systems in high-bay warehouses.

Solid connection, robust against external influences

Advantage of the pulley principle: there is an uninterrupted connection between the encoder and the moving object. Adverse effects on distance detection e.g. caused by dirt with optical distance measurement, are mostly eliminated.

The mechanical components are designed for industrial, long-lasting use with up to 1 million pulls.



Draw-wire mechanisms

Design	Dimensions [mm]	Linearity [%]	Housing type/ Housing material	Rope spans up to * [m]	Order no.
1	80 x 48 x 82	± 0.02	cylindrical / metal, aluminium, anodised	1.9	E61439
ļ	60 x 57 x 89	± 0.1	cylindrical / PA	2.4	E61440
Ţ	78 x 40 x 75	± 0.01	rectangular / die-cast zinc, plastic	3	E61441
	115 x 103 x 115	± 0.01	rectangular / aluminium, anodised	5	E61442

* draw wire mechanisms with other lengths on request

Encoders

Draw wire mechanisms in combination with encoder								
IO-Link	HTL	CAN		SSI	920 mA	010 V		
,)	P	, d		P	P			
RMU300	RU3100	RM9007	RM3006	RMU400	RMU100	RMU200		
IO-Link multiturn, 31 bits	Incremental (IO-Link), 3 tracks	CANopen 24 bits	PROFIBUS 25 bits	SSI 24 bits	Analogue 420 mA	Analogue 010 V		

These encoder versions solve the majority of applications. In principle, other encoders with 58 mm diameter, synchro flange and 6 mm shaft diameter can also be used with the draw wire mechanisms. You will find further encoders at ifm.com.

Accessories

	Accessories			Connection technology			
04.2021	Description		Order no.	Description		Order no.	
iout prior notice. • I	C	Pulley	E61445	01	M12 socket, 5-pole, 5 m black, PUR cable	EVC545	
al alterations with	0) 0) 0) 0) 0) 0) 0) 0)	IO-Link master Profinet, 4 ports	AL1100	N	M12 socket, 8-pole, 5 m black, PUR cable	E12403	
to make technic	0) (0 0) (0 0) (0 0) (0	IO-Link master, EtherNet/IP, 4 ports	AL1120				
We reserve the right	ifm – c	Pulley IO-Link master Profinet, 4 ports IO-Link master, EtherNet/IP, 4 ports			For further technical details, please v	visit: ifm.com	