

MRA-F190-450D2





Ordering information

Туре	Part no.
MRA-F190-450D2	6029793

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Detailed technical data

Technical specifications

Accessory group	Wire draw mechanism
Description	HighLine wire draw mechanism for face mount flange with 10 mm shaft, measuring range 0 m 50 m $$
Items supplied	Without encoder
Measurement range	0 m 50 m
Reproducibility	≤ 5 mm
Linearity	≤ ± 2 mm
Hysteresis	≤ 10 mm
Weight	15.9 kg (Wire draw mechanism)
Weight (measuring wire)	7.1 g/m
Measuring wire material	Highly flexible stranded steel 1,4401 stainless steel V4A
Material, spring housing	Die-cast zinc
Housing material, wire draw mechanism	Aluminum (anodized), aluminum die cast (nickel-plated)
Length of wire pulled out per revolution	491.5 mm
Actual wire draw length	50.2 m
Spring return force	\leq 18 N 37 N $^{1)}$
Measuring wire diameter	1.35 mm
Wire acceleration	18 m/s²
Operating speed	4 m/s
Resolution	To calculate the resolution of the system please use following formula:length of wire draw per revolution / steps per revolution = resolution of the combination of wire draw + encoder
Ambient operating temperature	-30 °C +70 °C
Enclosure rating mechanic	IP31
Life of wire draw mechanism	Typ. 1,000,000 cycles ^{2) 3)}

 $^{^{1)}}$ These values were measred at an ambient temperature of 25 $^{\circ}$ C. There may be variations at other temperatures.

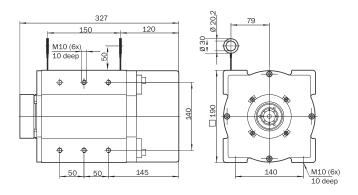
 $^{^{2)}\,\}mbox{Average}$ values, which depend on the application.

³⁾ The service life depends on the type of load. This is influenced by environmental conditions, the installation location, the measuring range in use, the traversing speed, and acceleration.

Classifications

27270591
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EC002026
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Dimensional drawing (Dimensions in mm (inch))



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We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

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