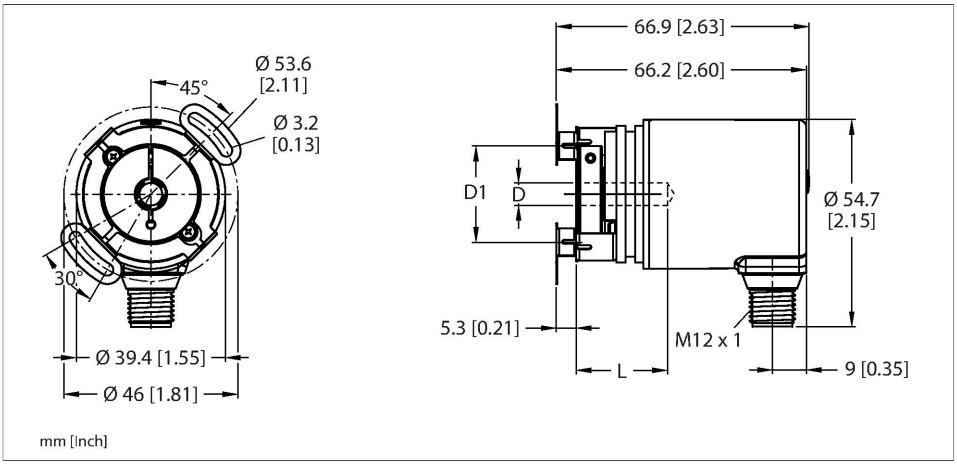
RM-100CA0E-5C13S12M-H1181
Absolute Rotary Encoder - Multiturn
Industrial Line



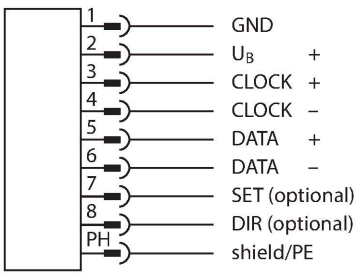
Features

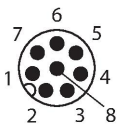
- Flange with slotted flex mount, Ø 46 mm
- Hollow shaft, Ø 1/4"
- Optical measuring principle
- Shaft material, stainless steel
- IP67 rated on the shaft side
- -40…+85 °C
- Max. 4000 rev/min
- 10-30 VDC
- SSI (Binary Code)
- M12 connection, 8-pin
- Singleturn, 13-bit resolution
- Multiturn, 12-bit resolution

Technical data

Type	RM-100CA0E-5C13S12M-H1181
ID	200016699
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Moment of inertia of the rotor	6 × 10^{-6} kgm²
Starting torque	< 0.01 Nm
Repetition accuracy	± 0.2 ° At 25 °C
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute multiturn
Resolution singleturn	13 Bit
Resolution multiturn	12 Bit
Electrical data	
Operating voltage U_B	10…30 VDC
No-load current	≤ 40 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	SSi
Output function	Binary coded
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	Ø 46 mm
Shaft Type	Blind hole shaft

Wiring diagram





Technical data

Shaft diameter D (mm)	6.35
Shaft diameter D	0.25 in
Shaft Length L [mm]	18.5
Outer diameter of compression fitting D1	24 mm
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	M12, 8-pole
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40…+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s², 10…2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67