

Ultra-compact inclination sensors GIM140R.

Less space consumption — more performance

The GIM140R inclination sensor is a powerful inclination sensor in an extremely compact design that is designed for a variety of applications.

Numerous design details in combination with extended functions facilitate simple integration and time-saving commissioning.

Space-saving, precise and robust design

- Ultra-compact 14 mm flat sensor design for use in tight spaces
- Absolute accuracy up to ±0.4° for accurate positioning
- Extended temperature range -40 ... +85 °C
- High protection against shocks and vibration up to 50 g / 20 g
- Rugged industry-proof aluminum housing
- Protection rating up to IP 67/IP 69K
- Power consumption ≤12 mA
- Corrosion protection C5-M

Maximum comfort in the application

- Teach input for time saving zero position adjustment
- Cable core cross section of 0.5 mm² for use of mobile automation connectors, e.g. DEUTSCH
- Innovative out-of-range diagnostics for easy operation
- Energy-saving operation directly from vehicle battery





Principal fields of application

- Patient tables
- Scissor lifts
- Aerial working platforms

Product overview GIM140R





	GIM140R	GIM140R	
	1-dimensional	2-dimensional	
Sensing method	MEMS		
Size (housing)	48 x 14 x 45 mm		
Measuring range	0 30° 0 60° 0 90° 0 120° 0 180° 0 270°	±10° ±30° ±45° ±60°	
Voltage supply / Interface	0 360° 8 30 VDC / Analog 0.5 4.5 VDC 12 30 VDC / Analog 0 10 VDC 12 30 VDC / Analog 4 20 mA 10 30 VDC / CANopen®1		
Resolution	0.2°	0.05°	
Accuracy (+25 °C)	±0.4°		
Operating temperature	−40 +85 °C		
Material	Housing: aluminum, anodised		
Protection DIN EN 60529	IP 67/IP 69K		
Connection	Cable 0.3 m (5 x 0.5 mm²) Resilient 0.5 mm² core cross section matching also cables with mobile automation connection technology (e.g. DEUTSCH)		
Comfort functions	Teach input for zero position adjustment Innovative output characteristics for out-of-range diagnostics		

¹⁾ In preparation

Learn more about our GIM140R encoder series at:

www.baumer.com/inclination

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