Baumer EAM580RS - Functional Safety certified encoder

Maximum Performance in Mobile Machines



E1

CANopen

CANopen safety easy to use

SIL2 PLd Functional Safety

Designed for Mobile Machines

- Enhanced machine performance
- Easiest machine integration
- Designed for maximum machine uptime
- SIL2 / PLd-certified safety encoder



Suitable for your application

Safe position

Safe speed

Safe acceleration

Static stability control – precise and safe boom rotation positioning

Certified Safety made easy

Enhanced Mobile Machine Performance

- High accuracy stable over lifetime
- Fast safety transmission (CANopen Safety 1ms)
- Operating speed up to 6000 rpm (IP67)

Certified Safety

- Safe position / safe speed / safe acceleration
- SIL2, PLd - Cat. 3
- High MTTFd value
- Over-dimensioned mechanics
- CANopen safety communication

Easiest Machine Integration

- Worldwide recognized safety certification
- Compact/short housing with standard interfaces/connectors
- User-friendly Baumer engineering tools (BSS, CRC)
- Diagnostic information

Designed for Maximum Machine Uptime

- Road vehicle standard ISO 16750-2 /-5
- E1-compliant design (ECE R10, Rev.6)
- Corrosion protection CX (C5-M)
- High shock, vibration resistance
- High protection class IP 66 / IP 67

	Solid shaft	Blind hollow shaft
Size	Ø 58 mm	
Sensing	Magnetic	
Resolution	Singleturn 14 bit / multiturn 18 bit	
Voltage	8 … 48 VDC	
Electrical interface	CANopen; CANopen Safety	
Mechanical interface	Solid shaft Ø 10 mm with flat, spring slot	Blind hollow shaft Ø 10 - 15 mm
Connection	1 x M12 connector; 2 x M12 connector (bus-in / -out); cable 2 m	
Absolute accuracy typ. (+25°C)	± 0.3° (-40 … +75° C)	
Certified according to	ISO 13849-1:2023 – Cat.3 PLd, IEC 61508 – SIL2	
Operating temperature	-40 ... +75 °C	
Protection class	IP 65 / IP 66 / IP 67	

Baumer
Passion for Sensors

Find out more:
www.baumer.com/EAM580RS