

"METAL FACE" SENSORS WITH EXTENDED SENSING RANGE









"METAL FACE" SENSORS

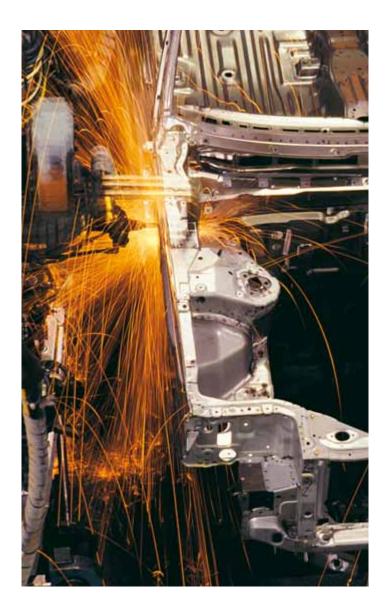
Do you have applications for inductive sensors, in which the key requirements are robustness, corrosion resistance, impermeability, wear resistance, long service life, and reliability? For these applications, Pepperl+Fuchs offers its "Metal Face" sensors, which are based on a self-contained stainless steel housing.

Traditionally, cylindrical inductive sensors have a plastic cap on the front face and a nickel plated brass housing. That is ideal for most applications. However, in very harsh industrial applications, the mechanical stresses encountered can result in a reduced service life.

The solution: Because of a self-contained stainless steel housing with an active sensing face, Pepperl+Fuchs "Metal Face" sensors are extremely well suited for operation under particularly adverse conditions.

HIGHLIGHTS

- Very robust and resilient due to a self-contained metal sensing face
- **■** Extended sensing range
- Resistant to environmental influences such as humidity and mechanical shocks
- Pressure-resistant sensing face
- Reduced plant downtimes
- Special application, welding sector: C-series "Metal Face" sensors are resistant to weld splatter
- A self-contained, stainless-steel housing with metal sensing face ensures:
 - corrosion resistance
 - impermeability
 - wear resistance
 - long service life
 - reliability





PRODUCT OVERVIEW

"METAL FACE" SENSORS – STANDARD SERIES Sensing range 10 mm 15 mm Model number NMB5-12GM65-E2-V1 NMB10-18GM55-E2 NMB10-18GM65-E2-V1 NMB15-30GM55-E2 NMB15-30GM65-E2-V1 NMB5-12GM55-E2 Dimensions Diameter 12 mm 18 mm 30 mm Length 55 mm 65 mm 55 mm 65 mm 55 mm 65 mm Thread 47 mm 44 mm 47 mm 42 mm 45 mm 40 mm 360 Hz 240 Hz 150 Hz **Switching frequency**

2-meter PUR cable

M12 connector

2-meter PUR cable

M12 connector



Connection type

2-meter PUR cable

M12 connector

"METAL FACE" SENSORS – WELD-RESISTANT C SERIES **Sensing range** 5 mm 10 mm Model number NMB5-12GM65-E2-C-V1 NMB10-18GM65-E2-C-V1 NMB15-30GM65-E2-C-V1 Dimensions Diameter 12 mm 18 mm 30 mm Length 55 mm 65 mm 65 mm Thread 44 mm 42 mm 40 mm Weld resistance 250 mT (AC and DC) Connection type M12 connector

GENERAL TECHNICAL INFORMATION			
Supply voltage	10 V DC 30 V DC		
Output	3-wire DC version (NO or NC contact)		
Output current	200 mA max.		
Mounting	flush		
LED indicator	Green: Operating voltage	Yellow: Switching state	
Housing material	Stainless steel 1.4305 (303)		
Ambient temperature	−25 °C +70 °C		

REDUCTION FACTOR				
Detectable materials	Steel	Stainless steel	Aluminum	
Reduction factor	1.0	typ. 0.8	typ. 0.4	

FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements – wherever you need us.

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