



FOR THE MOST EXTREME CONDITIONS

**“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	5 mm		10 mm		15 mm	
Model number	NMB5-12GM55-E2	NMB5-12GM65-E2-V1	NMB10-18GM55-E2	NMB10-18GM65-E2-V1	NMB15-30GM55-E2	NMB15-30GM65-E2-V1
						
Dimensions	12 mm		18 mm		30 mm	
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
Switching frequency	360 Hz		240 Hz		150 Hz	
Connection type	2-meter PUR cable	M12 connector	2-meter PUR cable	M12 connector	2-meter PUR cable	M12 connector



“METAL FACE” SENSORS – WELD-RESISTANT C SERIES

Sensing range	5 mm	10 mm	15 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.

Contact

Pepperl+Fuchs GmbH
Lilienthalstraße 200
68307 Mannheim · Germany
Tel. +49 621 776-4411 · Fax +49 621 776-27-4411
E-mail: fa-info@pepperl-fuchs.com

Worldwide Headquarters

Pepperl+Fuchs GmbH · Mannheim · Germany
E-mail: fa-info@pepperl-fuchs.com

USA Headquarters

Pepperl+Fuchs Inc. · Twinsburg · USA
E-mail: fa-info@us.pepperl-fuchs.com

Asia Pacific Headquarters

Pepperl+Fuchs Pte Ltd · Singapore
Company Registration No. 1999003130E
E-mail: fa-info@sg.pepperl-fuchs.com

www.pepperl-fuchs.com

 **PEPPERL+FUCHS**
SENSING YOUR NEEDS