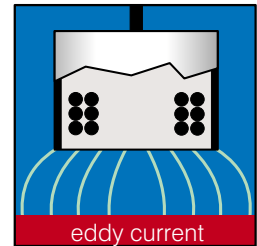


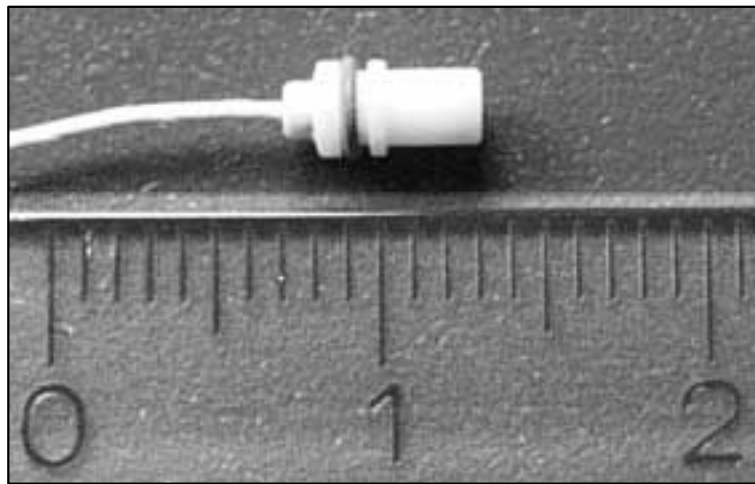


Sub-miniature pressure resistant displacement sensor U05(65) / U05(74)

Using non-contact eddy-current measuring principle, the displacement sensor U05(65) / U05(74) offers high precision in severe environment. Its measuring coil is integrated into a sub-miniature ceramics housing. A O-ring sealing enables pressure proof operation. At static pressure tests to the sensor front face, up to 2000 bar have been applied for short term. Cable routing is very simple due to miniature cable with just 0.5 mm outer diameter.



Typical application is measurement of fuel injection needle movement.



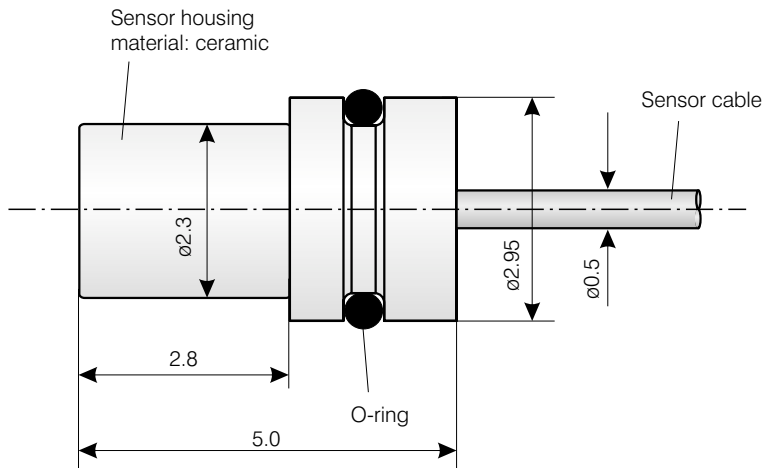
Sub-miniature displacement sensor U05(65) / U05(74)
Non-contact eddy current measurement principle

f e a t u r e s	
<ul style="list-style-type: none"> ■ sub-miniature design ■ pressure proof housing ■ operation in severe environment ■ high precision measurement 	

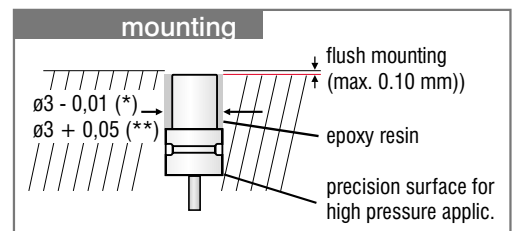
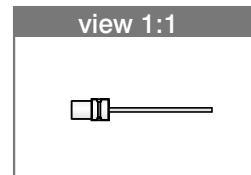
Technical data
(in combination with series 500 or series 3300 electronics)

Model	U 05(65)	U 05(74)
Measuring principle	eddy-current (non-contact)	
Measuring range	0.5 mm	
Linearity	±0.2% FSO (±1 μm)	
Resolution	static	0.01 % FSO
	dynamic	0.2 % FSO
Band width	0 ... 100 kHz	
Temperature range	-50 ... +150 °C	
Temperature stability	0.05 %/K FSO typ.	
Pressure (static)	700 bar	
Integrated cable (shielded teflon cable)	0.25 m	0.80 m
Controller	series 500 or series 3300	

FSO = Full Scale Output



Sensor dimensions in mm,
not to scale



(*) for high-pressure application
(**) for usual application

MICRO-EPSILON MESSTECHNIK GmbH & CO. KG

Koenigbacher Strasse 15
D-94496 Ortenburg/Germany

Phone: +49/ 85 42/1 68-0
Fax: +49/85 42/1 68 90

e-mail: info@micro-epsilon.de
www.micro-epsilon.com

MICRO-EPSILON

3200 Glen Royal Road, Suite 110
Raleigh, NC 27617 / USA

Phone: 919/787-9707
Fax: 919/787-9706

e-mail: me@micro-epsilon.com
www.micro-epsilon.com

SUNSTAR自动化 <http://www.sensor-ic.com/> TEL: 0755-83376489 FAX:0755-83376182 E-MAIL:szss20@163.com