

eddyNCDT 3001-U6 / 3001-U8

- Compact M18 sensor design with integrated controller
- Bandwidth of 5kHz (-3dB)
- Sensor for ferro- and non-ferromagnetic targets
- Temperature compensation up to 70°C
- Easy to use (plug & play)
- Robust design to IP67



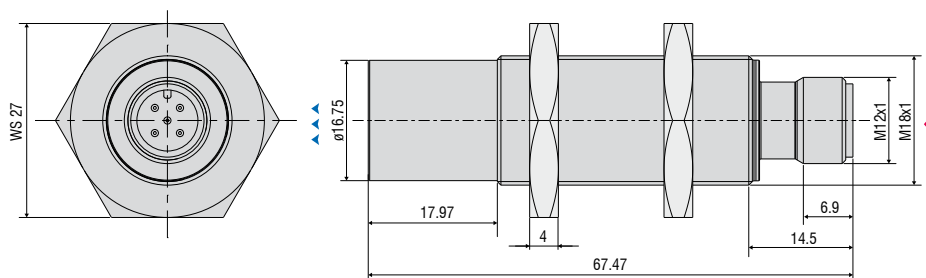
Model	DT3001-U6-A-SA	DT3001-U6-M-SA	DT3001-U8-A-SA	DT3001-U8-M-SA
Measurement object	aluminum	steel	aluminum	steel
Measuring range	6mm		8mm	
Offset distance	0.6mm		0.8mm	
Linearity deviation ¹⁾	≤15μm		≤20μm	
Resolution ^{1) 2) 3)}	≤0.25% FSO		≤0.25% FSO	
	≤3μm		≤4μm	
Temperature stability ^{1) 2)}	≤0.05% FSO		≤0.05% FSO	
	≤1.5μm/°C		≤2μm/°C	
Bandwidth (-3 dB)	≤0.025% FSO/°C		≤0.025% FSO/°C	
Temperature compensation range	5kHz			
Temperature range	0°C ... +70°C			
	Operation	-20°C ... +70°C		
Storage	-20°C ... +80°C			
Installation	unshielded			
Recommended measurement object geometry (flat)	Ø 64mm			
Connection	5-pole M12 connector			
Output	analog		0.5V...9.5V	
	digital		RS485 (ME bus protocol)	
Power supply	12V ... 32V			
Protection class	IP67			
Weight	34.4g (without nuts)			

FSO = full scale output

¹⁾ applicable under the following conditions:

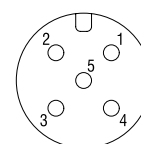
- Calibration to flat steel or aluminum target (1.0037 and 3.1645 respectively)
- Nominal measuring range
- Temperature compensation range: 0 ... +70°C

²⁾ relates to midrange; ³⁾ RMS value of the signal noise



5-pole M12 connector on electronics

Pin	Description	PCx/5 cable
1	+24 V _{DE} supply	brown
2	analog output	white
3	Ground	blue
4	RS485 (A+)	black
5	RS485 (B-)	gray



▲▲▲ Measurement direction ▲ Connector side