

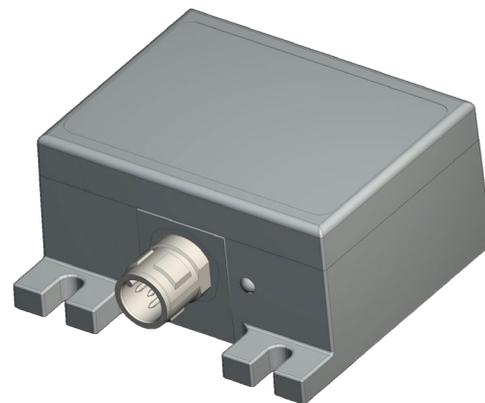
M-A552AR1x

Accelerometer Sensor Unit RS422 Interface

■ GENERAL DESCRIPTION

The M-A552 is a three axis digital output accelerometer featuring ultra-low noise, high stability, and low power consumption using fine processing technology of Quartz. Incorporating both high accuracy and durability, the versatile M-A552 is well suited to a wide-range of challenging applications such as SHM, seismic observation, condition monitoring for industrial equipment, and pose detection for industrial machinery (i.e. construction machinery/attachments, agricultural machinery/ implements, robots).

The M-A552 is packaged in a water-proof and dust-proof metallic case supporting RS422 interface. This ruggedized unit is suitable for industrial use that requires remote mounting, or long-distance wiring.

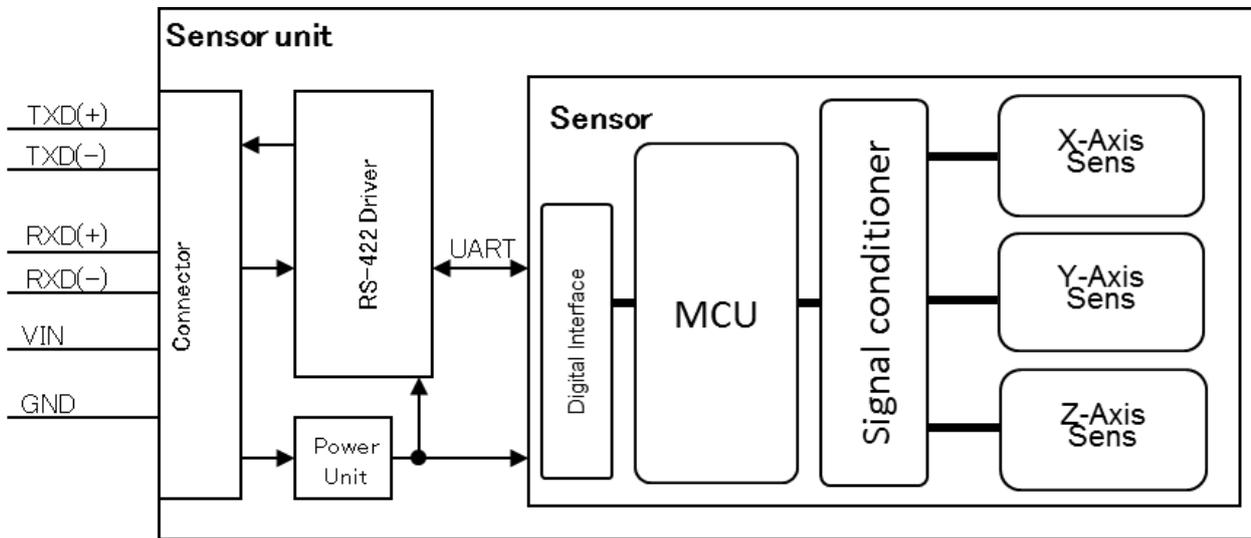


■ 特長 FEATURES

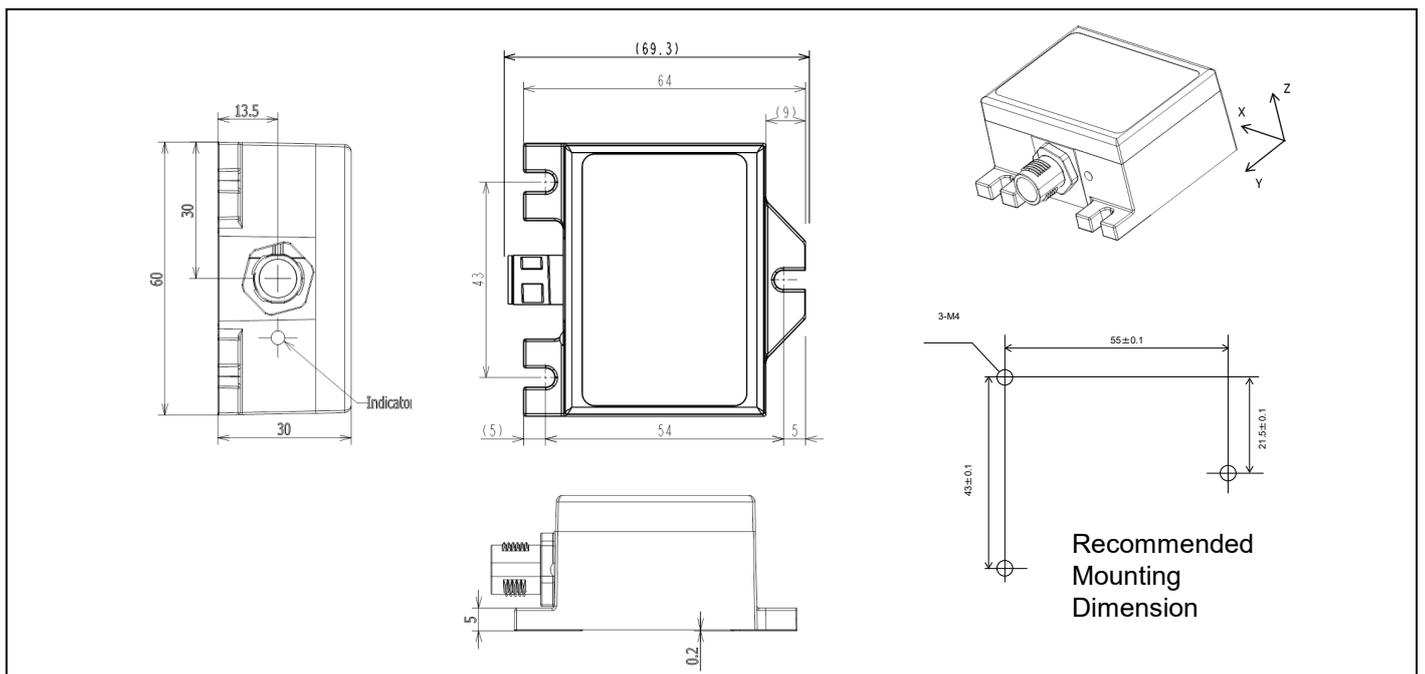
Item	Specification	Note
Sensor		
Integrated sensor	Model: M-A552AR1x Internal sensor M-A352 Detection range $\pm 15G$ Initial Bias error $\pm 4mG(@25^{\circ}C)$ Resolution 0.06 μG Low noise 0.5 $\mu g/\sqrt{Hz}$ typ Selectable output format: Acceleration / Tilt Angle Programmable low-pass digital filters	
Interface		
Protocol (DL layer)	RS-422 (TX/RX Pair, Full-Duplex transmission)	
Bit rate	Maximum 460.8kbps (programmable)	230.4kbps(default)
Cable Length	250m (max)	
Others		
Trigger function	Internal timer event trigger function	External trigger not available
Terminator	Included (120 Ω typ)	
General specification		
Voltage supply	9 ~ 32V	
Power consumption	40mA typ. ($V_{in}=12V$)	
Operating temperature range	-30 ~ +70 $^{\circ}C$	
External dimension		
Outer packaging	Overall metallic shield case	
Size	65 \times 60 \times 30 mm (Including projection)	
Weight	128g	
Interface connector	M12, 8pin-male, water-proof	
Water-proof, Dust-proof	IP67	
Regulation		
EU	CE marking (EN61326、RoHS Directive)	Class A
FCC	FCCpart15B	Class A

M-A552AR1x

■ ブロックダイアグラム BLOCK DIAGRAM



■ 外形図、及びセンサー軸 OUTLINE DIMENSION



(millimeters)

M-A552AR1x

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Document code: 3Z60-0066-52E
Released: Oct. 2019

Rev.1.0