

PRODUCT SHEET

Three-Axis Tilt Transmitter

AEX-IT-RS

Industrial inclination measurement with RS485 Modbus communication.



The AEX-IT-RS is an industrial three-axis tilt transmitter for monitoring equipment inclination. It supports applications including structural monitoring, bridge and tunnel measurement, dam monitoring, weighing-system tilt compensation and drilling inclination control.

3-axis MEASUREMENT	0.01 deg RESOLUTION	IP65 PROTECTION	<1 s RESPONSE
-----------------------	------------------------	--------------------	------------------

Features

 Three-axis inclination measurement	 RS485 Modbus communication	 Kalman-filtered angle data
 DC 5-30 V supply	 IP65 protection	 Compact flange mounting

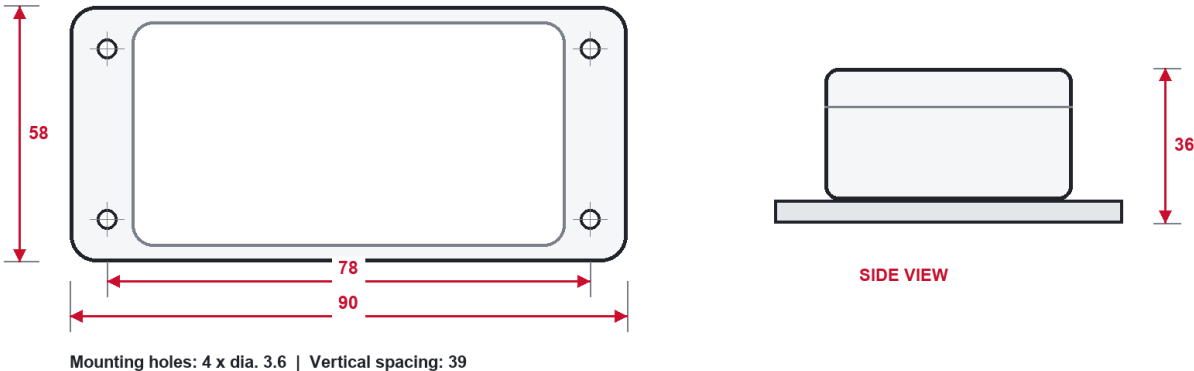
Specifications

Supply voltage	DC 5-30 V	Maximum power	<=0.15 W
Operating environment	-40 to +60 C; 0-95% RH, non-condensing	Output	RS485, Modbus protocol
X-axis range	-180 to +180 deg	Y-axis range	-90 to +90 deg
Z-axis range	-180 to +180 deg	Resolution	0.01 deg
X/Y static accuracy	+/-0.1 deg	X/Y dynamic accuracy	+/-0.5 deg
Z static accuracy	+/-0.5 deg	Z dynamic behavior	Integral error present
Temperature drift	+/- (0.5 to 1 deg), -40 to +60 C	Response time	<1 s
Protection rating	IP65	Standard cable length	600 mm; customizable

Dimension Drawing

AEX-IT-RS | DIMENSION DRAWING

Orthographic views. All dimensions in millimetres.



Key Dimensions

Overall length	90 mm	Overall width	58 mm
Housing height	36 mm	Mounting-hole spacing	78 x 39 mm
Mounting hole	Dia. 3.6 mm	Enclosure	Flanged housing

Typical Applications

Structural monitoring | Bridge and tunnel measurement | Dam monitoring | Tilt compensation

Document Reference

Product ID PRD-SEN-0003 | Model AEX-IT-RS

Source note: No verified conductor or terminal assignment was supplied; a wiring diagram is intentionally omitted.