

Robust and precise inclination sensors – Now with IO-Link



With analogue and switching outputs as well as vibration monitoring

- High accuracy across the whole 2-axis angular range up to 360°
- Very low temperature drift due to active temperature compensation
- Visualisation of the operating and switching states by clearly visible LEDs
- Configurable current and voltage output functions
- Adjustable filter functions for different applications.



Precision counts

The 2-axis inclination sensors are designed for high measurement accuracies over the whole angular range. All functions can be configured via IO-Link.

Thanks to an active temperature compensation and high protection rating they operate reliably even at extreme ambient temperatures and rough environments.

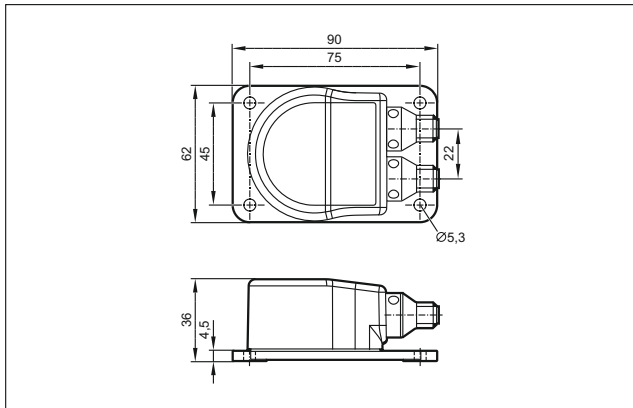
Vibration monitoring

Alternatively, JN2200 can also be used for 3-axis vibration monitoring. Up to 3 axes can be included into the calculation of the characteristic value.







Typical applications are the detection of structural vibration or tower vibration to ISO 4866, or machine monitoring to ISO 10816.




Dimensions



Connection technology

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVM039
	Socket, M12, 10 m black, PUR cable	EVM041
	Socket, M12, 2 m black, PUR cable	EVM036
	Socket, M12, 10 m black, PUR cable	EVM038
	Jumper, M12, 5 m black, PUR cable	EVC069
	Jumper, M12, 5 m black, PUR cable	EVC059




The products

Type	Description	Order no.
	Angular range $\pm 180^\circ / \pm 90^\circ$, IO-Link	JN2200
	Angular range $\pm 45^\circ$, IO-Link	JN2201

Technical data JN2200, JN2201

Operating voltage with:	[V DC]	
Switching and current outputs		9.2...30
Voltage output		12...30
IO-Link connection		18...30
Reverse polarity protection		•
		JN2200 JN2201
Angular range		$\pm 180^\circ / \pm 90^\circ$ $\pm 45^\circ$
Absolute accuracy		$\leq \pm 0.5^\circ$ $\leq \pm 0.1^\circ$
Repeatability		$\leq \pm 0.1^\circ$ $\leq \pm 0.05^\circ$
Resolution		$\leq \pm 0.05^\circ$ $\leq \pm 0.01^\circ$
Number of measurement axes with vibration		3 -
Number of measurement axes with inclination		2 2
Frequency range	[Hz]	0.1...400 0.5...50
Measuring range	[g]	$\pm 2, \pm 4, \pm 8$ ± 2
Ambient temperature	[°C]	-40...85
Temperature coefficient	[°/K]	$\leq \pm 0.002$
Protection rating		IP 65 / IP 67 / IP 68 / IP 69K
Housing material		diecast zinc nickel-plated
Connection		2 x M12 connector (4 poles; A-coded)
Communication interface		IO-Link 1.1, COM 2, 38.4 kbaud

Accessories

Type	Description	Order no.
	LINERECORDER SENSOR Software for parameter setting and set-up of IO-Link sensors	QA0001
	USB IO-Link master for parameter setting and analysis of units Supported communication protocols: IO-Link (4.8, 38.4 and 230 kBit/s)	E30390
	Memory plug, parameter memory for IO-Link sensors	E30398