



Signal converter IO221 and IO221/CO DMS input → IO – Link (V1.1)

Product Features:

- 1x strain gauge input for connecting a strain gauge full bridge sensor
- Simple device parameterization via IO-Link possible using various engineering tools
- Numerous connection options via expansion option (IO221/CO) (three additional control inputs and two additional control outputs)
- Adjustable limit value monitoring possible
- Generation of pending events (e.g. calculated bridge resistance above or below the set target resistance, bridge current > 50 mA, undervoltage, ...) possible
- Compact rail housing to EN60715

Available Options:

IO221:	Basic device with strain gauge input for a strain gauge full bridge sensor
IO221/CO:	Basic device with strain gauge input for a strain gauge full bridge sensor and additional 3x HTL PNP control inputs and 2x PNP control outputs

Technical Specifications:		
Connections:	Connector type:	screw terminal, 1,5 mm ² / AWG 16
Power Supply:	Input voltage: Protection circuit: Consumption:	24 VDC (18 ... 30 VDC) through IO-Link reverse polarity protection approx. 75 mA (unloaded)
DMS Input:	Anzahl: Konfiguration: Empfindlichkeit: Auflösung: Genauigkeit: DMS Versorgungsspannung: Ausgangsstrom:	1 mit Rücklesung Spannung +/- 5mV, +/-10mV, +/-20mV, +/-40mV, +/-80mV 16 Bit +/- 0.01% / 10K 3-10 VDC max. 50 mA
Control inputs: (with option „CO“)	Number of inputs: Format: Frequency: Reaction time: Transmission Time (IO Link): Load:	3 HTL, PNP (Low 0 ... 3 V, High 9 ... 30 V) max. 1 kHz 1 ms Approx. 1 ms – (Cyclus Time IO – Link) max. 2 mA at 24VDC
Control outputs: (with option „CO“)	Number of outputs: Format: Output current: Reaction time: Transmission Time (IO Link):	2 5 ... 30 V (depends on the Com+ voltage), PNP max. 100 mA each output (with external Com+ supply!) min. 1 ms (Depending on „Sampling Time“ and „Filter“ setting) Approx. 1 ms – (Cyclus Time IO – Link)
IO-Link:	Module / Specification: Bitrate: Port Class: Cyclus time: Data width:	Device / IO Link V1.1 COM 3 (230,4 kBit / s) Typ A min. 1 ms 16 Byte (14 Byte (Processdata) + 1Byte („CO“ Status) + 1 Byte (Diagnosis data))
Indicators:	Number of indicators: Function:	1 LED 1 x green for “ready for operate” state or actual “IO Link state” (with option “CO”)
Housing:	Material: Mounting: Dimensions (w x h x d): (without connectors) Dimensions (w x h x d): (inclusive connectors) Weight: Protection:	Plastic 35 mm top hat rail (according to EN 60715) 34 x 100 x 131 mm / 1.34 x 3.94 x 5.16 inches 34 x 109 x 140 mm / 1.34 x 4.65 x 5.51 inches approx. 160 g IP20
Ambient temperature:	Operation: Storage:	-20 °C ... +60 °C not condensing -25 °C ... +70 °C
Environmental conditions:	Altitude: Humidity: Degree of pollution:	max. 2000 meter above sea level max. 80% relative humidity to 30°C 2
Failure rate:	MTBF in years: (continuous operation at 60 °C)	IO221: 92,9 a IO221/CO: 84,9 a
Conformity and standards:	EMV 2014/30/EU: RoHS (II) 2011/65/EU RoHS (III) 2015/863:	EN 61326-1: 2013 for industrial location EN 55011: 2016 + A1: 2017 + A11: 2020 Class A EN IEC 63000: 2018