



touchMATRIX Indicator IX350

SSI indicator for absolute encoders, with touchscreen and graphic display

Product Features:

- Master or Slave operation with clock frequencies up to 1 MHz
- For single turn and multi turn encoders with SSI formats from 13 ... 32 Bit
- Bright and high-contrast display with event-dependent color variations
- Emulation of a 7-segment display inclusively icons and units
- Intuitive and easy parameterization by plain text and touchscreen
- 24 V auxiliary output for encoder supply
- Linearization with 24 control points
- Numerous features, e. g. scaling, filtering, bit blanking etc.
- 3.78 x 1.89 inch norm panel housing and IP65 protection

Available Options:

- **IX350:** Basic unit with SSI interface, 3 control inputs
- **Option AC350:** Power supply 115 / 230 VAC
- **Option A0350:** 16 bit analog output, 4 control outputs, serial RS232 interface
- **Option C0350:** 4 control outputs, serial RS232 interface
- **Option RL350:** 2 relay outputs

All options can be combined

Technical Specifications:		
Connections:	Connector type:	screw terminal, 1.5 mm ² / AWG 16
Power supply (DC):	Input voltage:	18 ... 30 VDC
	Protection circuit:	reverse polarity protection
	Consumption:	approx. 150 mA (unloaded)
	Fuse protection:	extern: T 0.5 A
Power supply (AC): (Option AC350)	Input voltage:	115 / 230 VAC (60/50 Hz)
	Power consumption:	approx. 5 VA (unloaded)
	Fuse protection:	extern: T 1.0 A
Encoder supply:	DC version:	approx. 1 V lower than the power supply voltage
	Output current:	max. 250 mA
	AC version (AC350):	approx. 24 V (± 15%)
	Output current:	150 mA until 45°C / 80 mA by more than 45°C
SSI interface:	Configuration:	Master or Slave
	Format:	Binary or Gray code
	Frequency:	max. 1 MHz
	Resolution:	13 ... 32 Bit
Control inputs:	Number of inputs:	3
	Format:	HTL, PNP (10 ... 30 V)
	Frequency:	max. 10 kHz
	Load:	max. 2 mA / Ri > 15 kOhm / 470 pF
Analog output: (Option AO350)	Configuration:	current or voltage operation
	Voltage output:	-10...+10 V (Low 0 ... 3 V, High 9 ... 30 V)
	Current output:	0/4 ... 20 mA (burden: max. 270 Ohm)
	Resolution:	16 Bit
	Accuracy:	± 0,1 %
Control outputs: (Option CO350)	Number of outputs:	4
	Format / level:	5 ... 30 V (depends on the Com+ voltage), PNP
	Output current:	max. 200 mA
	Reaction time:	< 1 ms
Relay outputs: (Option RL350)	Number of outputs:	2
	Configuration:	potential free changeovers
	AC-Switching capacity:	max. 250 VAC / 3 A / 750 VA
	DC-Switching capacity:	max. 150 VDC / 2 A / 50 W
	Reaction time:	< 5 ms
Serial interface: (Option CO350)	Format:	RS232
	Baudrate:	9600, 19200 or 38400 baud
Display:	Type:	LCD (backlight)
	Display range:	8 digits plus sign (-99999999 ... 99999999)
	Digit height:	13 mm height
	Color:	red / green / yellow (switchable)
	Operation:	resistive touchscreen
Housing:	Material:	ABS, UL 94 V-0
	Mounting:	panel cut out
	Dimensions (w x h x d):	96 x 48 x 116 mm / 3.78 x 1.89 x 4,56 inch
	Cut out (w x h):	91 x 44 mm / 3.58 x 1.69 inch
	Protection class:	IP65 (front), IP20 (rear)
	Weight:	approx. 200 g
Ambient temperature:	Operation:	-20 °C ... +60 °C resp. -4 ... 140 °F
	Storage:	-25 °C ... +70 °C resp. -13 ... 158 °F
Conformity and standards:	EMC 2004/108/EC:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
	LV 2006/95/EC:	EN 61010-1
	RoHS 2011/65/EU:	EN 50581