



IX345-348

SSI indicators for operation with single- and multiturn absolute encoders

Product Features:

- Clear LED display (15 mm / 0.59" size) with adjustable brightness
- Master- or slave operation with clock rates up to 1 MHz
- Suitable for all encoders with SSI formats from 8 to 32 bits
- Helpful supplementary functions like linearization, bit blanking etc.
- Power supply 115/230 VAC and 17 to 30 VDC in the same unit
- Aux. output 24 VDC / 100 mA for sensor supply

Available Devices:

- **IX345:** SSI Indicator (display only)
- **IX346:** SSI Indicator with analog output
- **IX347:** SSI Indicator with 2 presets and transistor outputs
- **IX348:** SSI Indicator with serial interface (RS232 / RS485 selectable)

Technical Specifications:		
Power supply:	Input voltage (AC): Power consumption (AC): Input voltage (DC): Protection circuit (DC): Ripple (DC): Consumption (DC): Connections:	115 / 230 VAC (+/- 12.5 %) 7.5 VA 24 VDC (17 ... 30 VDC) reverse polarity protection ≤ 10 % at 24 VDC approx.. 150 mA (unloaded) AC: screw terminal, 2.5 mm ² / AWG 14 DC: screw terminal, 1.5 mm ² / AWG 16
Encoder supply:	Output voltage: Output current:	24 VDC +/- 15 % (with AC supply) max. 150 mA
SSI interface:	Modes: Format: Frequency range: Resolution: Accuracy: Connections:	Master or Slave operation (selectable) Binary or Gray code (selectable) 100 Hz ... 1 MHz 8... 32 Bit (unused bits can be blanked) +/- 1 digit screw terminal, 1.5 mm ² / AWG 16
Control inputs:	Number of inputs: Input logic: Signal level: Functions: Pulse time: Internal resistance: Connections:	3 PNP/NPN/Namur HTL (standard): LOW 0 ... 2 V, HIGH 9 ... 35 V A = send serial (only IX348), B = no function, C = set/reset min. 5 ms Ri ≈ 4.7 kOhm screw terminal, 1.5 mm ² / AWG 16
Analog output (IX346):	Volt output: Current output: Resolution: Accuracy: Reaction time:	-10 ... +10 V / 0 ... 10 V (max. 2 mA) 0 ... 20 mA / 4 ... 20 mA (burden: max. 270 Ohm) 14 Bit (±13 Bit) 0.1 % depends on selected operation mode
Transistor outputs (IX347):	Number of outputs: Output logic: Signal level: Reaction time: Output current: Connections:	2 PNP 5 ... max. 35 V (depends on voltage at COM+) approx. 5 ms max. 150 mA screw terminal, 1.5 mm ² / AWG 16
Serial interface (IX348):	Format: Baud rates (selectable): Operation modes: Connections:	RS232, switchable to RS485 (2-conductors) 600, 1200, 2400, 4800, 9600, 19200, 38400 Baud PC or printer mode screw terminal, 1.5 mm ² / AWG 16
Display:	Type: Characteristic:	6 Digit LED display high-efficiency orange, 15 mm / 0.59"
Housing:	Type: Material: Mounting: Dimensions (w x h): Protection class: Weight:	Norly UL94 – V-0 plastic panel cut out: 91 x 44 mm / 3.583 x 1.7323 inch outer dimensions: 110 x 48 x 140 mm / 4.331 x 1.889 x 5.511 inch front: IP 65 / rear: IP20 approx. 450 g
Ambient temperature:	Operation: Storage:	0 °C ... +45 °C / +32 ... +113 °F (not condensing) -25 °C ... +70 °C / -13 ... +158 °F (not condensing)
Failure rate:	MTBF in years (long-term usage at 60 °C / 140 °F):	IX345: 75.0 a IX346: 64.3 a IX347: 74.9 a IX348: 70.3 a
Conformity and standards:	EMC 2014/30/EU: LV 2014/35/EU: (Only for option AC and RL) RoHS (II) 2011/65/EU RoHS (III) 2015/863:	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-1 EN 61010-1 EN IEC 63000