

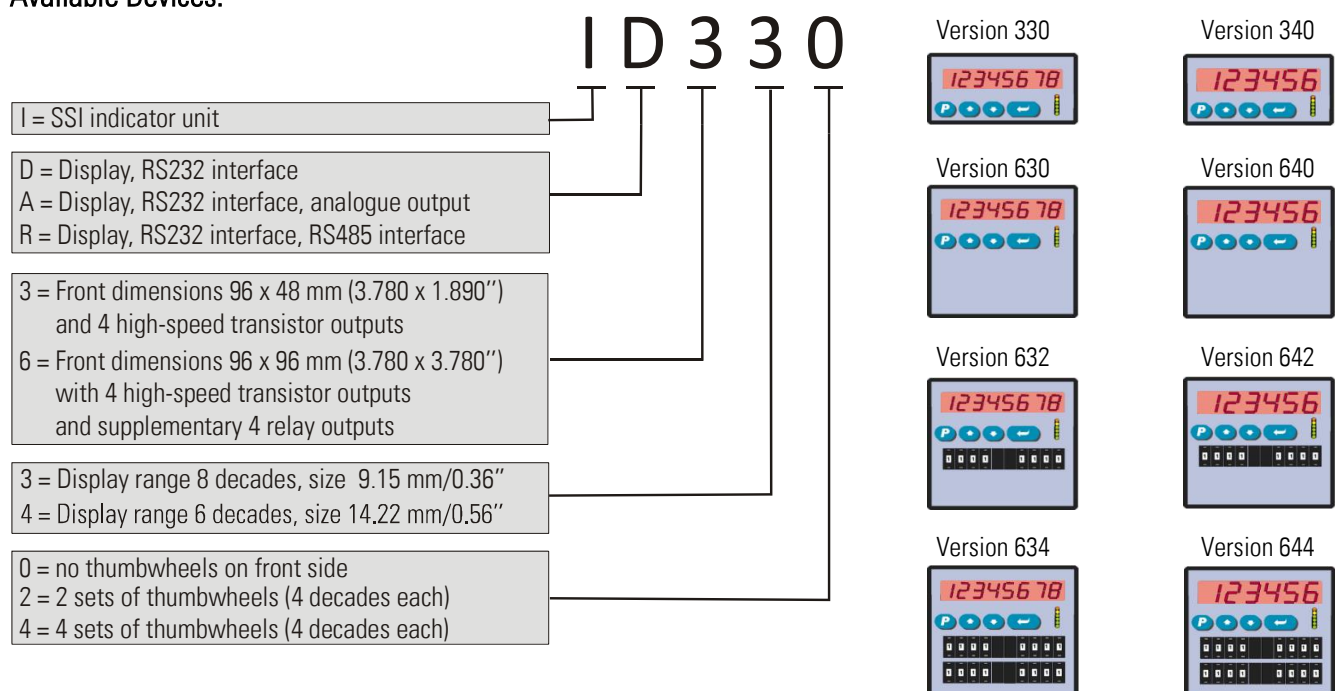
IA / ID / IR 330 – 644 series

Dual position & differential indicators for use with 2 two encoders (SSI absolute or TTL incremental)

Product Features:

- Electronic position indicators for high-end applications
- 2 independent encoder inputs (each either SSI-Master or SSI-Slave or incremental)
- Indication of encoder1, encoder2, [encoder1 - encoder2] or [encoder1 + encoder2]
- 4 presets with very fast responding power transistor outputs
- Models with 6 or 8 digit display available
- 24 VAC / 17 ... 40 VDC power supply

Available Devices:



Technical Specifications:		
Power supply:	Input voltage (AC): Power consumption (AC): Input voltage (DC): Protection circuit (DC): Ripple (DC): Consumption: Connections:	24 VAC (+/- 10 %) 15 VA 24 VDC (17 ... 40 VDC) reverse polarity protection ≤ 10 % at 24 VDC approx. 100 mA (unloaded) screw terminal, 1.5 mm ² / AWG 16
Encoder supply:	Number of outputs: Output voltage 1: Output current 1: Output voltage 2: Output current 2: Connections:	each 2 x 24 V and 2 x 5.2 V 24 VDC max. 120 mA per output 5.2 VDC max. 150 mA per output screw terminal, 1.5 mm ² / AWG 16
Frequency inputs:	Number of inputs: Formats: Combinations (encoder 1/2): Channels: Frequency: Connections:	2 SSI (incremental) and TTL (differential) 1 = SSI / 2 = SSI, 1 = SSI / 2 = TTL or 1 = TTL / 2 = SSI each A, /A, B, /B max. 1 MHz screw terminal, 1.5 mm ² / AWG 16
Control inputs:	Number of inputs: Input logic: Signal levels: Functions: Minimum pulse time: Internal resistance: Connections:	4 PNP/NPN/Namur HTL (standard): LOW 0 ... 2.5 V, HIGH 10 ... 30 V Reset/Set, Latch oder Nullimpulsauswertung 50 µs R _i = 3.3 kOhm screw terminal, 1.5 mm ² / AWG 16
Analog output: (only IA)	Voltage output: mA output: Resolution: Accuracy: Reaction time: Connections:	+/- 10 V, max. 2 mA 0 / 4 ... 20 mA (burden: max. 270 Ohm) 14 bit (± 13 bit) 0.1 % < 1 ms screw terminal, 1.5 mm ² / AWG 16
Control outputs:	Number of outputs: Signal levels: Output current: Reaction time: Protection circuit: Connections:	4 fast transistor outputs 5 ... 30 V / PNP max. 350 mA / channel < 1ms short circuit proof screw terminal, 1.5 mm ² / AWG 16
Serial interface:	Format: Baud rates (selectable): Operational modes: Connections:	ID / IA series: only RS232 / IR series: RS232, switchable to RS485 (2-wire) 600, 1200, 2400, 4800, 9600, 19200, 38400 Baud PC or printer mode screw terminal, 1.5 mm ² / AWG 16
Relay outputs: (only IA/ID/IR6xx)	Number of outputs: Switching capacity: Connections:	4 potential free changeovers 250 VAC / 1 A / 250 VA oder 100 VDC / 1 A / 100 W screw terminals, 2.5 mm ² / AWG 14
Display:	Type: Digit height:	6 resp. 8 digit LED display (high-efficiency orange) 15 mm resp. 10 mm / 0.59055 inch resp. 0.3937 inch
Housing:	Type/Material: Mounting: Dimension 3xx series: Dimension 6xx series: Protection class: Weight:	Norly UL94-V-0 / plastic panel cut out (w x h): 91 x 44 mm / 3.59 x 1.73 inch outer dimensions (w x h x d): 110 x 48 x 141 mm / 4.33 x 1.89 x 5.55 inch cut out (w x h): 89 x 91 mm / 3.50 x 3.59 inch outer dimensions (w x h x d): 110 x 96 x 141 mm / 4.33 x 3.78 x 5.55 inch units without BCD switches: front: IP 65 / rear: IP20 units with BCD switches: front: IP 20* / rear: IP20 * (by using the plexiglass cover part # 64026 also IP65) 3xx series: approx. 250 g / 6xx series: approx. 480 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:	ID340: 58,5 a, ID640: 51,3 a (long-term usage at 60 °C / 140 °F)