

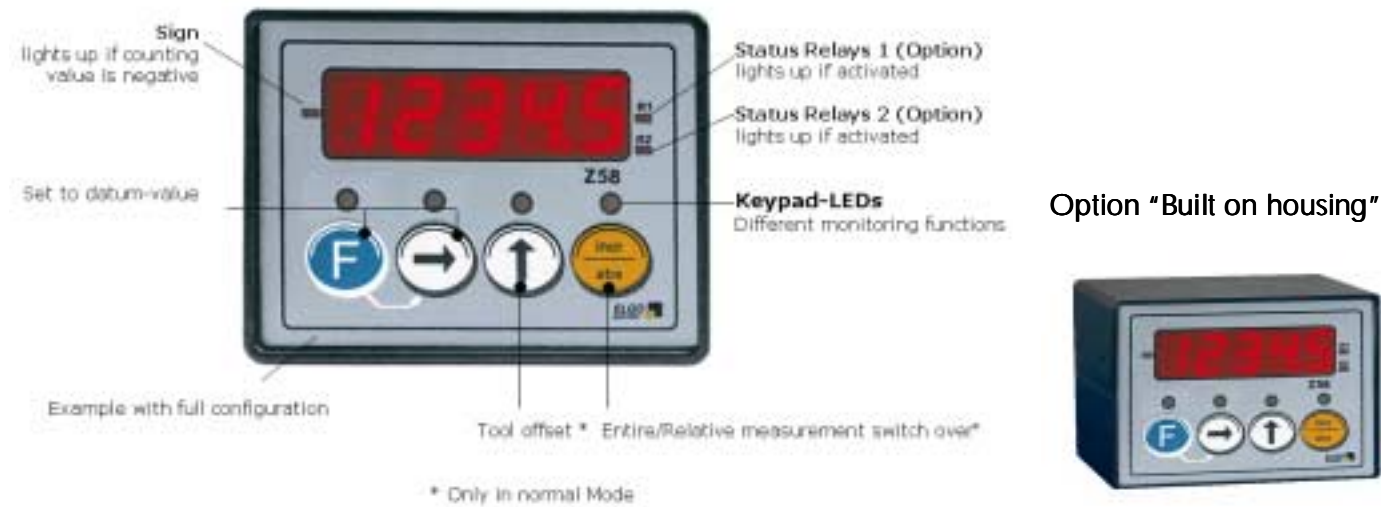
Z58 - Universal Position Indicator

The position indicator Z58 is based on the proven Z54 - type. The predecessor-type "Z54" can be replaced with Z58 in most applications (except some special variants). Z58 was developed for processing incremental signals as well as signals from ELGO-Absolute Measuring Systems like FMAX/EMAX. Additionally conventional and commercial Encoders with SSI-output can be processed, when order SSI-Input (see Type designation).

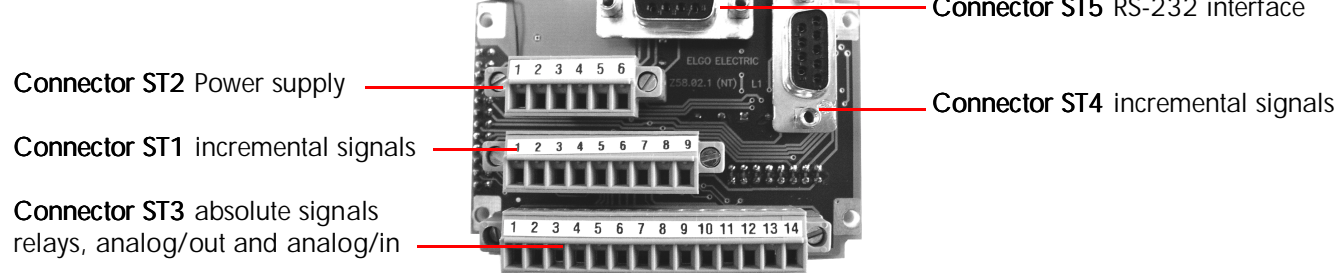
Further an analog input is available for processing signals from analog encoders like linear-potentiometers or tachometers. Z58 standard is equipped with a serial RS-232 interface. Two shutter-relay outputs and an analog output are available as an option. The function and parameter menu is clearly structured and simply to handle. Additionally new functions and parameter were completed. Front located monitor-LED's signals the states of the relays or also different states of the front located keys, e.g. OFF/ON status.

- Processes incremental and optionally absolute signals
- RS-232 interface
- Power down memory
- Scaling factor and edge multiplier
- Digital brightness control
- 3 external inputs
- Inch/mm switch over
- 2 shutter-relay outputs (option)
- Analog output (option) (0... 10 VDC or 0 (4)... 20 mA)
- Analog input (option) for flow meter function (0... 10V or 0... 20 mA)

Front, Keypad and Status-LEDs



Connections, rear of the unit



Lockable measuring systems



Z58 - Universal Position Indicator

Z58 - XXX - XXX - X - XXXXXXX

Type designation

Position Indicator
Universal single axis

SN-Number
000 = Standard
001 = First special version
002 = Second special version etc.
054 = Replace type for Z54

Power supply voltage
024 = 24 VDC (+/- 20 %)
115 = 115 VAC - 50/60 Hz (+/- 10 %) only with incremental signals!
230 = 230 VAC - 50/60 Hz (+/- 10 %) only with incremental signals!

Signal inputs
1 = A/B/Z 24 VDC Encoder supply, 24 V- output level (PNP) - 20 KHz
2 = A/A' B/B' Z/Z' 24 VDC Encoder supply, 5 V-TTL (PNP)- 20 KHz
3 = A/A' B/B' Z/Z' 5 VDC Encoder supply, 5 V-TTL (PNP) - 20 KHz
4 = Modulated for connection with ELGO - FMAX linear encoder
5 = Modulated for connection with ELGO - EMAX linear encoder
6 = SSI interface

Options
A = Built on housing
R = Two 24 VDC/1 A relay-outputs (shutters)
C = Analog input 0... 10 V (in preparation)
E = Analog input 0... 20 mA (in preparation)
F = Analog output 0... 10 V
G = Analog output 0... 20 mA
H = Analog output 4... 20 mA
I = 5-pin connector (Phoenix) for encoder (= replace Z54)
D = 9-pin connector (D-SUB) for LMIX/EMIX (= replace Z54)

Technical specifications

Position Indicator Z58.XXX.024
24 VDC - Version
Power voltage 24 VDC +/- 20 %
Consumption max. 70 mA (without encoder)

Position Indicator Z58.XXX.230 resp. 115
230 VAC or 115 VAC- Versions
230 resp. 115 VAC +/- 10 % 50 - 60 Hz
Consumption max. 5 VA (without encoder)

Only for incremental signals available!

General specifications:	
System accuracy	: +/- 1 Digit
Operating temperature	: 0° C + 50° C
Stock temperature	: - 40° C +70° C
Display window	: 14 mm high LED red, 5 Decades
PC- Interface	: Standard RS-232
SSI - Interface*	: Standard SSI, as absolute measuring-input
Protection class (front side)	: IP43 (installed state)
Analog input * (Option)	: 10 Bit A/D - Converter, 0... 10 VDC or 0... 20 mA
Analog output (Option)	: 12 Bit D/A - Converter, 0 ...10 VDC (Imax = 5 mA) or 0 (4)... 20 mA (Rmax = 200 Ohms)
Relay outputs	: Potential free shutters 24 VDC/ max. 1 A
Power down memory	: EEPROM
Inputs	: max. input current 10 mA PNP (active high), 24 VDC
Encoder supply	: 24 VDC, max. 75 mA load by encoder or measuring system
Housing	: Aluminium, black
Housing dimensions:	
Panel version (standard) b x h	: 96 x 72 mm (cut out 93 x 67 mm)
Install depth with screw terminals	: 78 mm
Install depth with SUB-D connectors	: 115 mm
Built on version (Option A): b x h	: 107 x 76 mm
Install depth	: 95 mm (160 mm with power-connector)
Mounting holes	: 2 x M5 max. 7 mm deep, bore hole distance 60 mm

* in preparation



Positioning- and
Length measuring systems
ELGO Electric GmbH



Z58 series

Universal single axis
position indicator