Preset counters, electronic

LED preset counters	Dual preset counters with 4 outputs and analog output (AC+DC)	572

Counter series for demanding applications with two individually scalable encoder inputs, each A, /A, B, /B, for count frequencies up to 1 MHz per channel.

Programmable operating modes include position or event counter, totaliser, difference counter, cut-to-length display, diameter calculation and many more.

AC/DC 24/17...30 V	**000000** DIN 96 x 48	**IP65**	max. **1 MHz**			**6/8 LED**	**DC OUT** 5 / 24 V	**mA, V**	**4**	**RS** 232 485
Power supply	DIN front bezel	High protection level	2 inputs	Operation with gloves	TTL, HTL and RS422 input	LED display	2 x sensor power supply	Analog output optional	Transistor output	Interface

Innovative

- 3 display values: counter 1, 2 as well as calculation-based display.
- 2 separate freely scalable count inputs: HTL or TTL (also with inverted inputs) max. input frequency 1 MHz/channel.
- Very bright LED display, 15 mm (6-digit) and 10 mm (8-digit) high.
- 4 freely programmable fast solid-state outputs, each with 350 mA output current.
- Step or tracking presets.
- Simple programming – with function codes, dependent on the operating mode selected.
- With 8 different fixed count functions, such as simple count, difference count and total count of both inputs, batch counter etc.

Compact and multifunctional

- One device caters for AC and DC power supplies.
- Simple programming with 4 keys and programmable dual functions.
- Can be used as counter or position display with limit values, where 2 values are monitored or calculated with respect to each other.
- 4 fast, programmable inputs with various functions, such as reset, gate, display memory (store), reference input or switching between the display values.
- Scalable analog output 0/4 ... 20 mA, ±10 V or 0 ... 10 V.
- RS232 interface as standard (RS485 optional), for parameter setting, readout of values or for modifications during operation.
- 2 auxiliary power supplies for sensors: 5.2 V DC and 24 V DC.

Order specifications

4 fast switch outputs and serial interface (RS232)	Order-No.	Delivery specification
6 digits	**6.572.0116.D05**	- Controller 572
6 digits, RS485	**6.572.0116.D75**	- Gasket
6 digits, scalable analog outputs	**6.572.0116.D95**	- Fastening set
8 digits	**6.572.0118.D05**	- Instruction manual German/English
8 digits, RS485	**6.572.0118.D75**	
8 digits, scalable analog outputs	**6.572.0118.D95**	

Accessories	Dimensions in mm [inch]		Order no.
Mounting frame with cut-out 92 x 45 [3.62 x 1.77]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 96 x 48 [3.78 x 1.89]	grey	**G300005**
OS2 software for parameter setting	can be downloaded at www.kuebler.com		

Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories.

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Technical data

General technical data

Display	6 digits	LED display, 15 mm mm [0.59"]high
	8 digits	LED display, 10 mm mm [0.39"]high
Operating temperature		0°C ... +45°C [+32°F ... +113°F] (non-condensing)
Storage temperature		-25°C ... +70°C [-13°F ... +158°F]

Electrical characteristics

Power supply		24 V AC, + 10%
		24 (17 ... 30) V DC
Current consumption DC		100 mA
		+ current consumption encoder
Connected load AC		15 VA
Auxiliary power supply output for sensors		2 x 5.2 V DC, each 150 mA
		2 x 24 V DC, each 120 mA
EMC	Emitted interference	EN 61000-6-3
	Immunity to interference	EN 61000-6-2
Device safety	Designed to	EN 61010 part 1
	Protection class	2
	Application area	Pollution level 2

Mechanical characteristics

Housing		Noryl UL94-V-0
Screw terminal	Cable cross-section	max. 1.5 mm^2 [AWG 25]
Protection		IP65 (front side)
Weight		approx. 250 g [8.82 oz]

Inputs

Universal incremental encoder inputs		2
Count frequency	RS422 and TTL with Inv.	1 MHz
(per encoder)	HTL asymmetric	200 kHz
	TTL asymmetric	200 kHz
Control inputs HTL		4
Ri (input resistor)		3.3 kOhm
Switching level	LOW	< 2.5 V
	HIGH	> 10 V
Min. pulse duration		50 μs

Outputs

|		
Switch outputs		
4 fast power transistors		5 ... 30 V DC, 350 mA
Reaction time		< 1ms [1]
Inductive loads require a freewheeling diode		
Serial interface		RS232
2400 ... 38400 Baud		RS485 (6.572.011X.D75)
Analog outputs		
Current		0 / 4 ... 20 mA
Load		max. 270 Ohm
Voltage		0 ... +10 V (max. 2 mA)
Resolution		14 bit
Precision		0.1 %
Reaction time		< 1 m

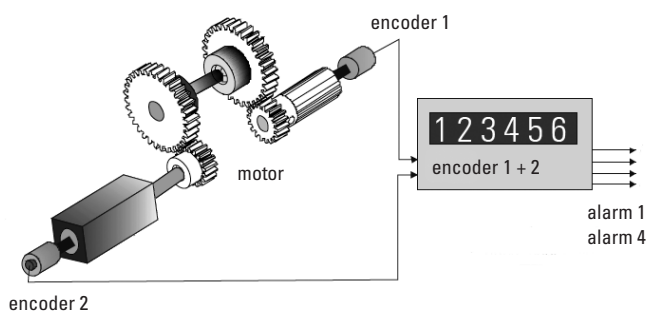## Application examples

Total-Position display
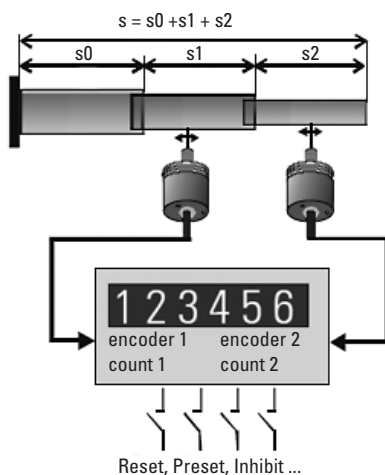
Difference-Position display
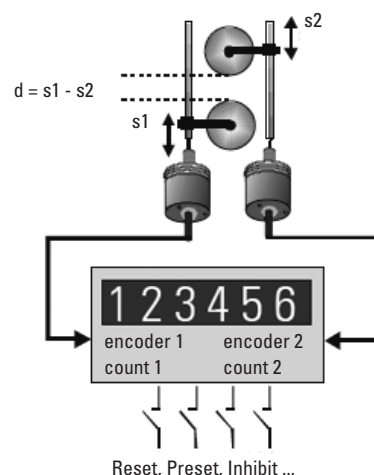
Measurement of the effective cut amount
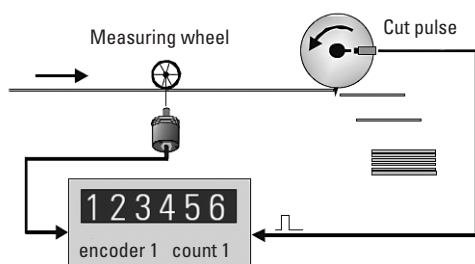
Monitoring of torsion, shafts or gear breakage

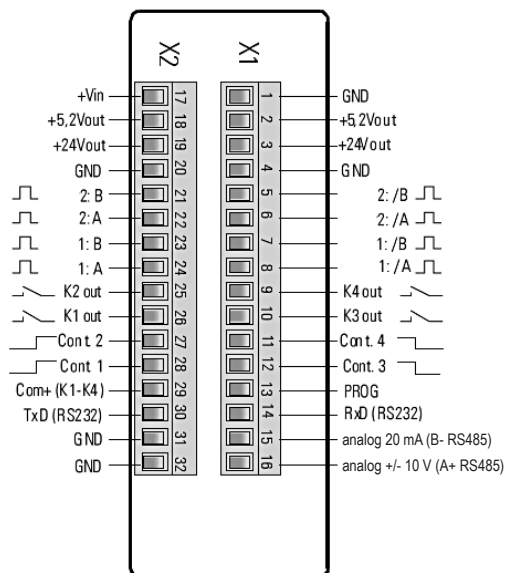1) Intensive serial communication can temporarily prolong the reaction time

Preset counters, electronic

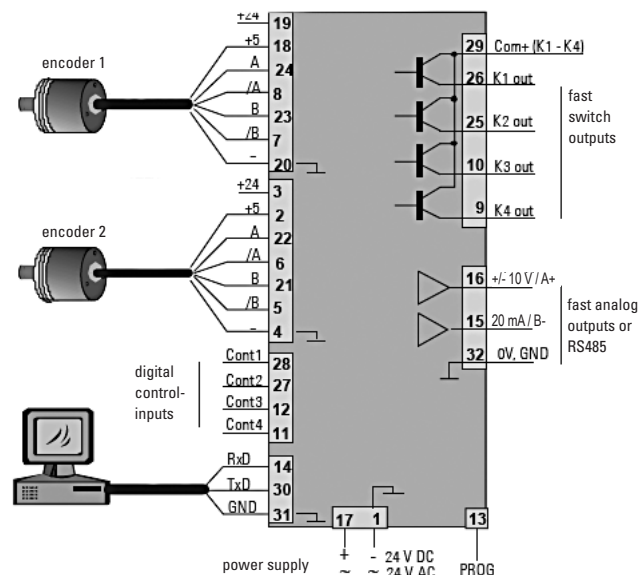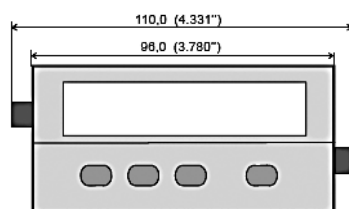| LED preset counters | Dual preset counters with 4 outputs and analog output (AC+DC) | 572 |

Terminal assignment

Connection examples

Example shows encoder with 5 V-supply and TTL / RS422-output

Dimensions

Dimensions in mm [inch]

Panel cut-out 92 x 45 mm [3.62 x 1.77]