

**LED** tachometers

Dual frequency displays with 4 outputs and analog output (AC+DC)

**574** 



Frequency display for demanding applications, with two individually scalable encoder inputs, in each case A, /A, B, /B for count frequencies up to 1 MHz per channel (also for single channel use).

Operating modes can be selected for tachometer or frequency display with measurements for difference, total value, product or ratio (also with reciprocal display).

























Supply voltage

DIN front bezel

High protection level

2 separate pulse inputs

Operation with gloves

n TTL, HTL and es RS422-input

HTL and LED display

2 x Sensor supply

Analog output optional

Iransisti output

Interface

#### **Innovative**

- 2 separate freely scalable frequency inputs: HTL or TTL (both also with inverted inputs), max. input frequency 1 MHz/channel.
- Very bright LED display, 15 mm high (6 digits).
- 4 freely programmable fast solid-state outputs, each with 350 mA output current.
- Many different output modes.
- Simple programming with function codes, dependent on the operating mode selected.
- · With 9 fixed different frequency functions, e.g.:
  - Single, difference and total value measurement of both inputs.
  - Product and ratio measurement.
  - Percentage measurement.
  - In-process time calculated from frequency (reciprocal speed).

## **Compact and multifunctional**

- Up to 3 display values in a single device: display counter 1, display counter 2 as well as the display calculated from counter 1 and 2.
- · AC and DC supply voltage in one device.
- Simple programming with 4 keys, all keys can be assigned dual programming functions.
- Can be used as a frequency display or tachometer with limit
  values.
- Monitoring function, where 2 values are monitored or calculated with respect to each other.
- 4 fast programmable inputs with various functions such as start delay, key lockout, display memory, reference input or switching between the display values.
- Scalable analog output 0/4 ... 20 mA, +/-10 V or 0 ... 10 V.
- Standard interface RS232 for parameter setting, for reading out the values to a PC or PLC, for modifications during operation.

#### **Order specifications**

4 fast switch outputs, serial interface (RS232)

6 digits

6 digits, scalable analog output

Order no.

6.574.0116.D05 6.574.0116.D95 Delivery specification

- Controller 574
- Gasket
- · Fastening set

Instruction manual German/English

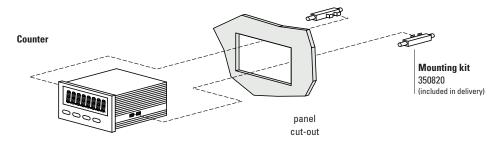


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### Accessories / Mounting examples



		Type / size	Description		Order no.	
Mounting kit			1 kit consists of 2 latch hooks		350820	
Mounting frame	123458	cut-out 92 x 45 mm [3.62 x 1.77"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	grey	G300005	-
Software for parameter setting OSxx			https://www.kuebler.com/de/docu-finder search box: OS1			

incl. in delivery

### Technical data

General technical data		
Display	6-digit	LED display, 15 mm [0.59"] high
Operating temperature		0 °C +45 °C [+32 °F +113 °F] (non-condensing)
Storage temperature		-25 °C +70 °C [-13 °F +158 °F]

Electrical charac	cteristics	
Supply voltage		24 V AC, + 10 % 24 (17 30) V DC
Current consumptio	n DC	100 mA + current consumption encoder
Connected load AC		15 VA
Auxiliary power sup	oply (for sensors)	2 x 5.2 V DC, each 150 mA 2 x 24 V DC, each 120 mA
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2

Mechanical characteristics				
<b>Housing material</b>		Noryl UL94-V-0		
Screw terminal	cable cross-section	max. 1.5 mm <sup>2</sup> [AWG 15]		
Protection		IP65 from front		
Weight		approx. 250 g [8.82 oz]		

Inputs				
2 universal incremental encoder inputs				
Count frequency (per encoder)				
RS422 and TTL with	inv. 1 MHz			
HTL asymme	tric 200 kHz			
TTL asymme	tric 200 kHz			
Entrées de commande				
4 control inputs HTL	Ri 3.3 k0hm			
l	.ow < 2.5 V			
H	ligh > 10 V			
min. pulse dura	tion 50 µs			

Outputs		
Switch outputs		
4 fast power transistors		5 30 V DC, 350 mA
reaction time		< 1 ms <sup>1)</sup>
inductive loads require a fr	eewheeling did	ode
Serial interface		RS232, 2400 38400 baud
<b>Analog outputs</b> (6.574.0116	.D95)	
	0 / 4 20 mA	load max. 270 Ohm
	0 +10 V	max. 2 mA
	Resolution	14 bit
	precision	0.1 %
	reaction time	< 1 ms

	A	p	pr	OV	a	S
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 $\ensuremath{\text{\textbf{CE}}}$  compliant in accordance with

EMC Directive 2014/30/EU RoHS Directive 2011/65/EU Low Voltage Directive 2014/35/EU

<sup>1)</sup> Intensive serial communication can temporarily increase the reaction time.



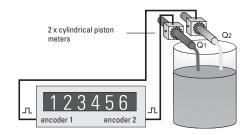
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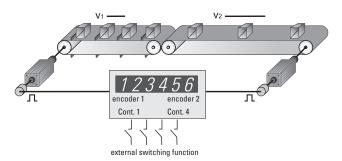
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#### **Application examples**

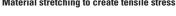
#### **Total flow rate**

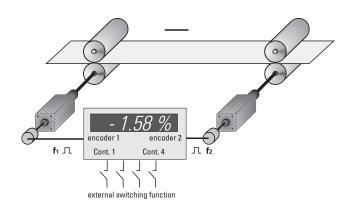


#### Speed difference

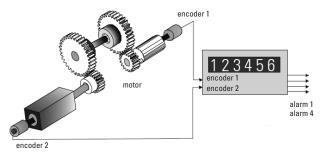


#### Material stretching to create tensile stress

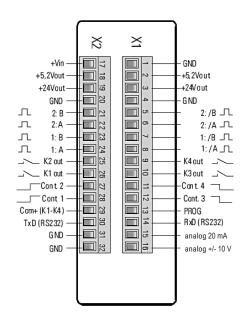




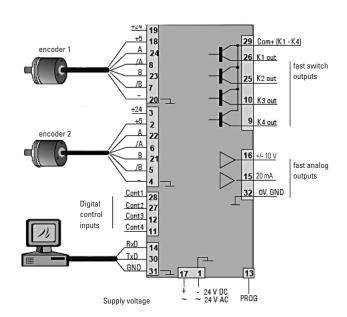
#### Monitoring of torsion, shafts or gear breakage



#### **Terminal assignment**



#### **Connection examples**





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#### **Dimensions**

Dimensions in mm [inch]

