



(ith 4 outputs and analog output (AC+DC)

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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).









pulse inputs









supply







output optional

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
- Gasket
- · Fastening set

· Instruction manual German/English

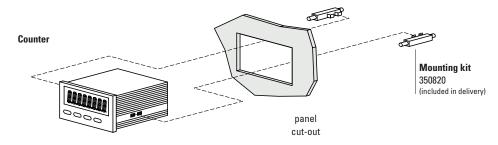


LED tachometers

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

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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 characteristics				
Supply voltage		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 (for sensors)		2 x 5.2 V DC, each 150 mA		
		2 x 24 V DC, each 120 mA		
Device safety	designed to	EN 61010 part 1		
	protection class	2		
	application area	pollution level 2		

Mechanical characteristics				
Housing material		Noryl UL94-V-0		
Screw terminal	cable cross-section	max. 1.5 mm ² [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 asymmetric	200 kHz				
TTL asymmetric	200 kHz				
Entrées de commande					
4 control inputs HTL	i 3.3 kOhm				
Lov	ı < 2.5 V				
Higl	n > 10 V				
min. pulse duration	n 50 µs				

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

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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

¹⁾ Intensive serial communication can temporarily increase the reaction time.



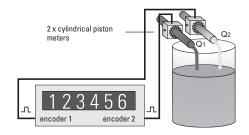
LED tachometers

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

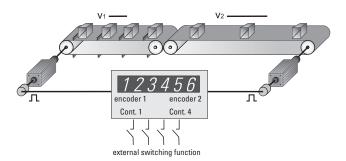
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Application examples

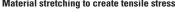
Total flow rate



Speed difference

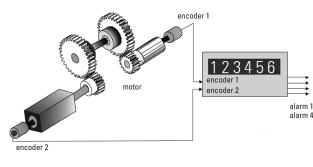


Material stretching to create tensile stress



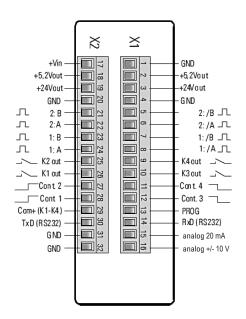


Monitoring of torsion, shafts or gear breakage

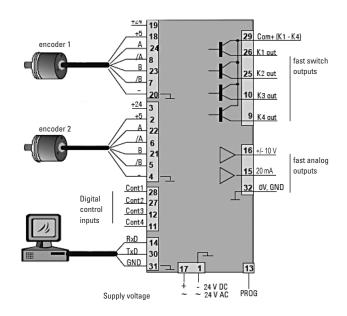


fıЛ external switching function

Terminal assignment



Connection examples





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Dimensions

Dimensions in mm [inch]

