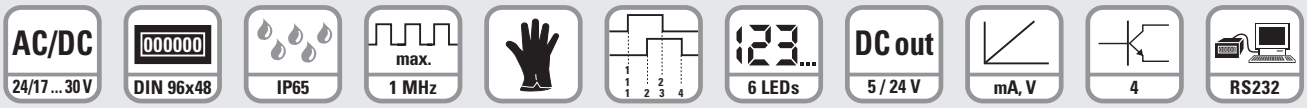
LED tachometers | Dual frequency displays with 4 outputs and analog output (AC+DC) | 574

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).

RoHS



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 power supply 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)	*Order no.*	*Delivery specification*
6 digits	**6.574.0116.D05**	· Controller 574 · Gasket · Fastening set · Instruction manual German/English
6 digits, scalable analog output	**6.574.0116.D95**	
6 digits, RS232 and RS485	**6.574.0116.D75**	

Accessories	Dimensions in mm [inch]	Order no.
Mounting frame for DIN rail mount	with cut-out 92 x 45 [3.62 x 1.77]	**G300005**
OS6.0 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-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

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 (for sensors)		2 x 5.2 V DC, each 150 mA 2 x 24 V DC, each 120 mA
EMC standards		EN 55011 class B, EN 61000-6-2, EN 61000-6-3 EN 61326-3-2
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2

Mechanical characteristics

Housing material		Noryl UL94-V-0
Screw terminal	cable cross-section	max. 1.5 mm² [AWG 15]
Protection		IP65 from front
Weight		approx. 250 g [8.82 oz]

Inputs

2 universal incremental encoder inputs

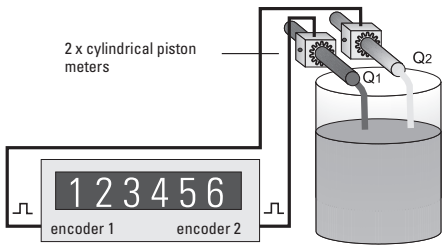
Count frequency (per encoder)		
	RS422 and TTL with inv.	1 MHz
	HTL asymmetric	200 kHz
	TTL asymmetric	200 kHz
Entrées de commande		
4 control inputs HTL	Ri	3.3 kOhm
	Low	< 2.5 V
	High	> 10 V
	min. pulse duration	50 µs

Outputs

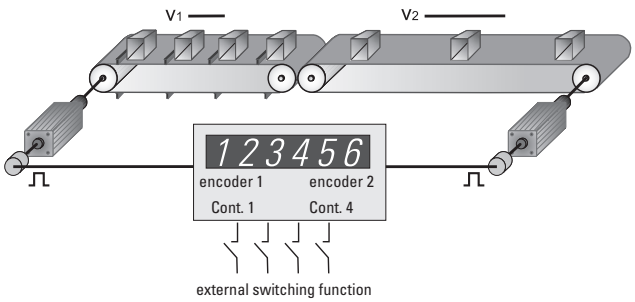
Switch outputs		
4 fast power transistors		5 ... 30 V DC, 350 mA
reaction time		< 1 ms [1]
inductive loads require a freewheeling diode		
Serial interface		RS232, 2400 ... 38400 baud RS485 (6.574.0116.D07)
Analog outputs (6.574.0116.D95)		
	0 / 4 ... 20 mA	load max. 270 Ohm
	0 ... +10 V	max. 2 mA
	Resolution	14 bit
	precision	0.1 %
	reaction time	< 1 ms

Application examples

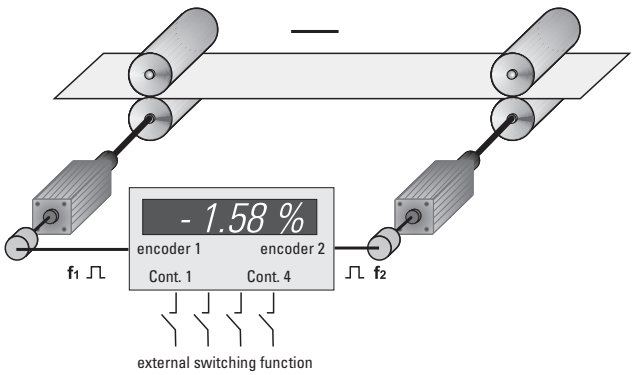
Total flow rate



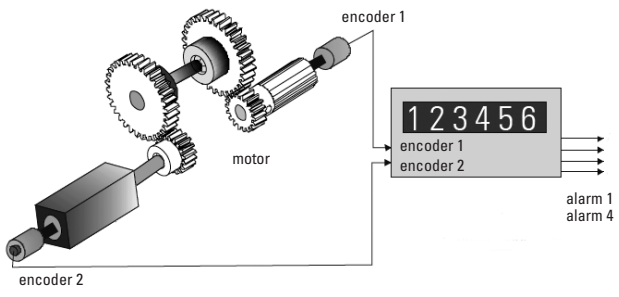
Speed difference



Material stretching to create tensile stress



Monitoring of torsion, shafts or gear breakage



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

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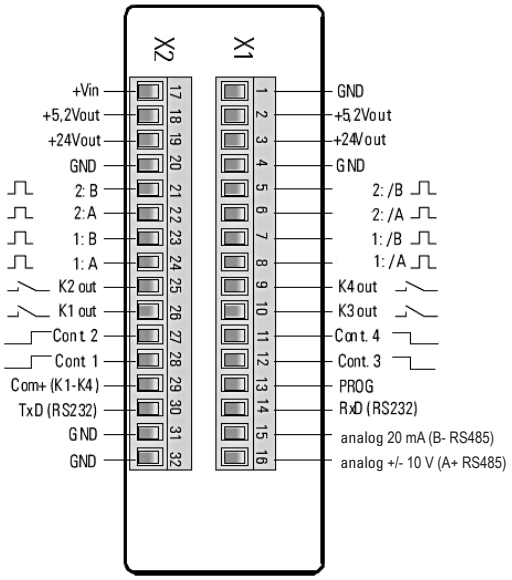
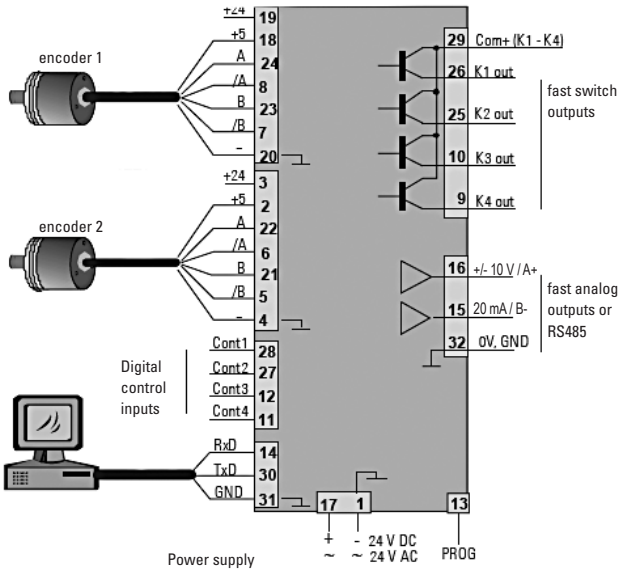
Terminal assignment



Application examples



Dimensions

Dimensions in mm [inch]