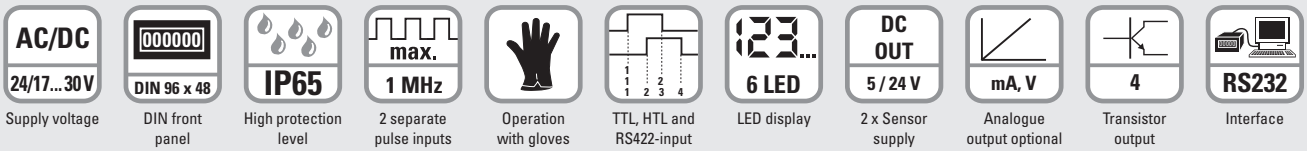
LED frequency display | Dual frequency display with 4 outputs and analogue output | 574

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, frequency display, difference, total value, product or ratio measurement, also with reciprocal display.



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 digit)
- 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, dual, difference and total value measurement of both inputs, product and ratio measurement and percentage measurement

Compact and versatile

- 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 voltages 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 analogue 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	*Order No.*	*Delivery contents*
6 digits,	**6.574.0116.D05**	- Controller 574 - Gasket - Fastening set - Instruction manual German/English
6 digits, scalable analogue output	**6.574.0116.D95**	
6 digits, RS232 and RS485	**6.574.0116.D07**	

Accessories

Mounting frame for DIN rail mount		with built-in dimension 92 x 45 mm	**G300005**
OS2 software for parameter setting		can be downloaded at www.kuebler.com	**OS2**

Further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories

LED frequency display | Dual frequency display with 4 outputs and analogue output | 574

General technical data

Display	6-digit	LED display. 15 mm high
Operating temperature		0°C ... +45°C
Storage temperature		-25°C ... +70°C
Housing material		Noryl UL94-V-0
Screw terminal	Cable cross-section	max. 1,5 mm²

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
EMC	Emitted interference Immunity to interference	EN 61000-6-3 EN 61000-6-2
Device safety	designed to Protection class Application area	EN 61010 part 1 2 Pollution level 2

Mechanical characteristics

Protection	IP65 from front
Weight	approx. 250 g

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

Control inputs
4 control inputs HTL, Ri = 3,3kOhm
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]

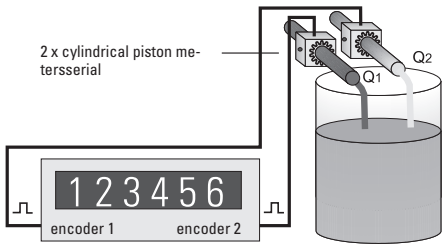
inductive loads require a freewheeling diode

Serial interface	RS232, 2400 ... 38400 baud RS485 (6.574.0116.D07)

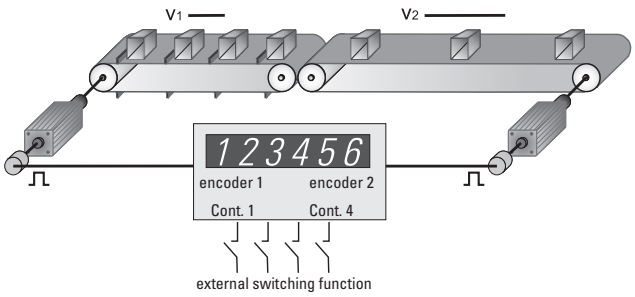
Analogue outputs (6.574.0116.D95)
0 / 4 ... 20 mA, load max. 270 Ohm
0 ... +10 V (max. 2 mA)
Resolution 14 bit, precision 0,1 %, reaction time < 1 ms

Application examples

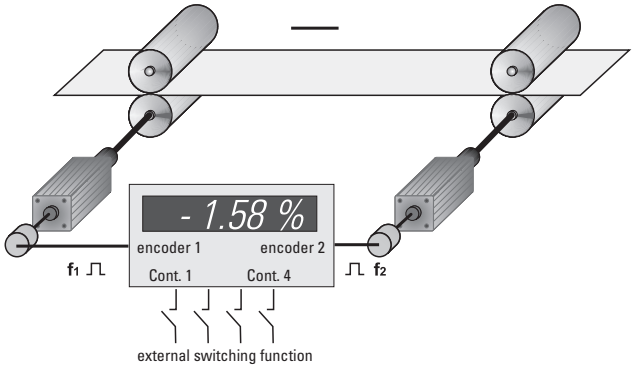
Total flow rate



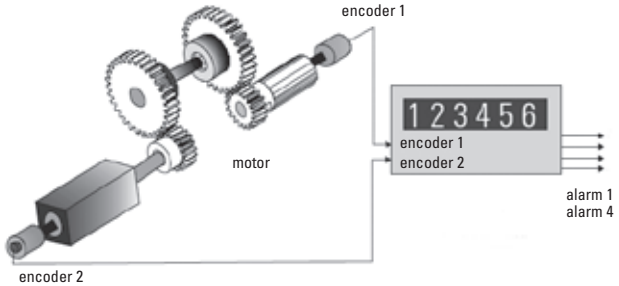
Speed difference



Material stretching to create tensile stress



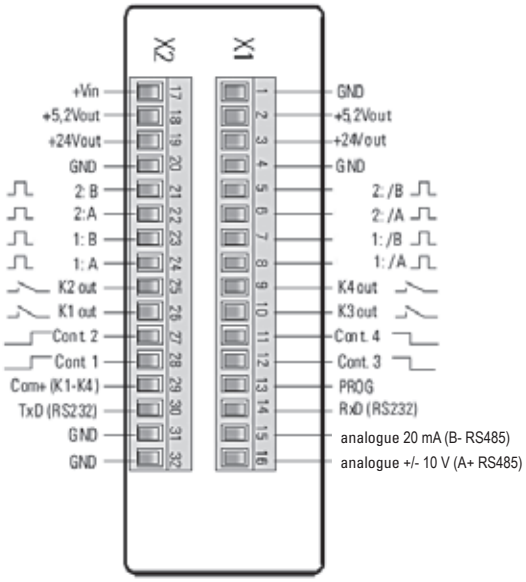
Monitoring of torsion, shafts or gear breakage



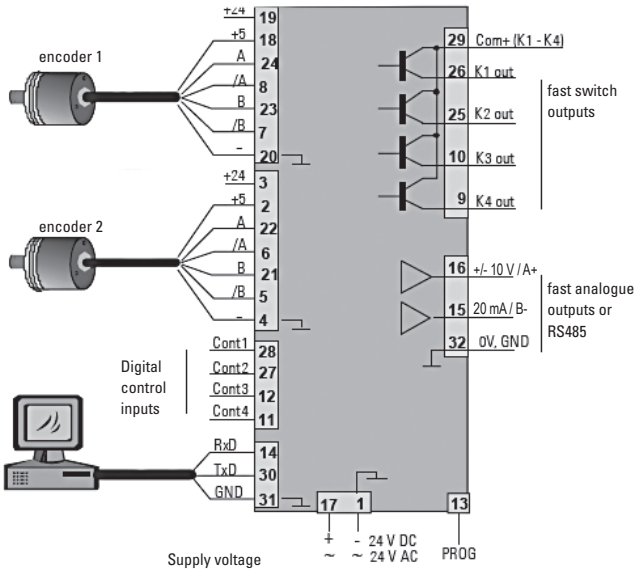
1) Intensive serial communication can temporarily increase the reaction time.

LED frequency display | Dual frequency display with 4 outputs and analogue output | 574

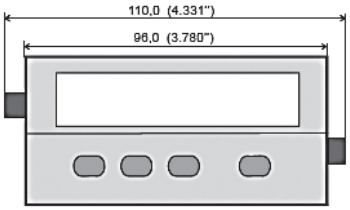
Electrical connections

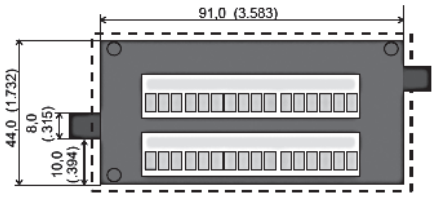


Application examples



Dimensions





Panel cut-out 92 x 45 mm