design **96 x 48 x 141mm**

analog / digital

✓ **2 pulse inputs and 1 reset input**

✓ **programmable measuring function for: rotation speed, speed, processing time (reciprocal rotation speed), various counting and stop watch functions, speed from propagation time**

✓ **power supply +24V DC**

✓ **adjustable scale factor**

✓ **15mm high 6-digit LED display**

✓ **screw terminals**

2 switching outputs, analog output RS232 / RS485 interface

description

These multifunction devices are suitable for various operating modes. By connecting a single-track sensor, it is possible to display the speed, cycle or processing time. In the counter mode, also twin track sensors can be used. As such, the **WY05** is particularly suitable as well as display equipment for linear measurements. Apart from this, there is the possibility of forming totals/differences for the count inputs A and B.

The display is freely scalable, a preset value is programmable. Likewise, the 'stopwatch' and 'determining speed by measuring the run time' operating modes are also available.

Three variants with different configurations are available. The **WY054900** offers two freely-programmable opto-coupler switching outputs which relate to the display. The

WY054905 has an analog output which relates to the display. -10 ... +10V, 0 ... 10V, 0/4 ... 20mA are programmable as standard output signals.

The **WY054902** has a serial interface, which can be used to connect the device with a PC.

The **WY05** can be run on 17 ... 30V DC as well as 115/230V AC. For connecting a sensor (max. 120mA), a 24V DC auxiliary voltage output is also available.

application examples

▶ rotation speed or cycle display
▶ unit counter
▶ display for linear measurement
▶ speed measurement
▶ stopwatch

article-no.	WY054900
output	**2 x PNP**

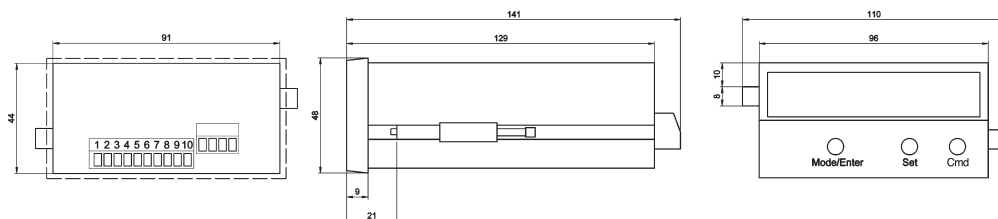| article-no.	WY054905
output	**0/4 ... 20mA and/or -10 ... +10V DC**
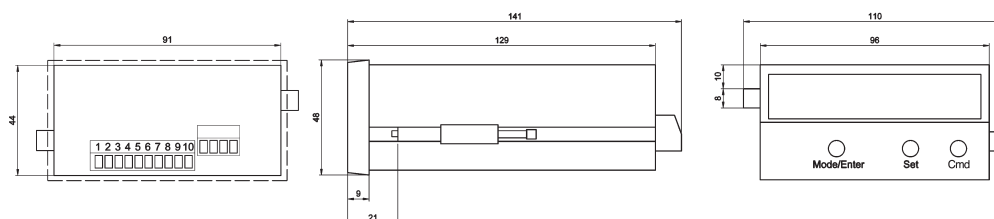
TECHNICAL DATA

output signal	see above
operating voltage	115 / 230V AC; 17 ... 30V DC
current consumption (w/o load)	18V DC: 120mA, 24V DC: 95mA, 30V: 80mA
power consumption	7.5VA
output current (max. load)	150mA
power supply	24V DC ±15%, 120mA (AC and DC)
input	2 x pulse, 1 x reset (pnp, npn, intrinsically safe)
input frequency	counter: 100kHz, A/B: 25kHz, reset: 1kHz
accuracy	±1 digit
display	6 decades LED
short-circuit protection	+
reverse polarity protection	+
housing material	Noryl UL94
design	48x96x141mm
operating temperature	0 ... +45°C
system of protection (EN 60529)	frontal IP65, backside IP20
connection	terminals

article-no.	**WY054902**
output	**RS232 / RS485**

TECHNICAL DATA

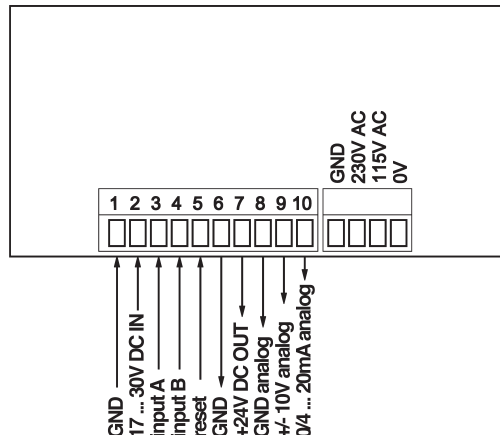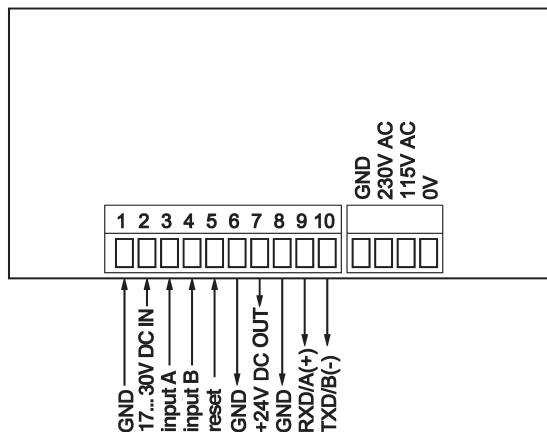|	
output signal	RS232 / RS485
operating voltage	115 / 230V AC; 17 ... 30V DC
current consumption (w/o load)	18V DC: 120mA, 24V DC: 95mA, 30V: 80mA
power consumption	7.5VA
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reverse polarity protection	+
housing material	Noryl UL94
design	48x96x141mm
operating temperature	0 ... +45°C
system of protection (EN 60529)	frontal IP65, backside IP20
connection	terminals

connection

WY054900

Pin	Signal
1	GND
2	17...30V DC IN
3	input A
4	input B
5	reset (C)
6	GND
7	+24V DC OUT
8	COM+
9	output 1
10	output 2

GND / 230V AC / 115V AC / 0V

WY054905

Pin	Signal
1	GND
2	17...30V DC IN
3	input A
4	input B
5	reset
6	GND
7	+24V DC OUT
8	GND analog
9	+/- 10V analog
10	0/4 ... 20mA analog

GND / 230V AC / 115V AC / 0V

WY054902

Pin	Signal
1	GND
2	17...30V DC IN
3	input A
4	input B
5	reset
6	GND
7	+24V DC OUT
8	GND
9	RXD/A(+)
10	TXD/B(-)

GND / 230V AC / 115V AC / 0V

application examples

WY05 as rotation speed indicator

10.0
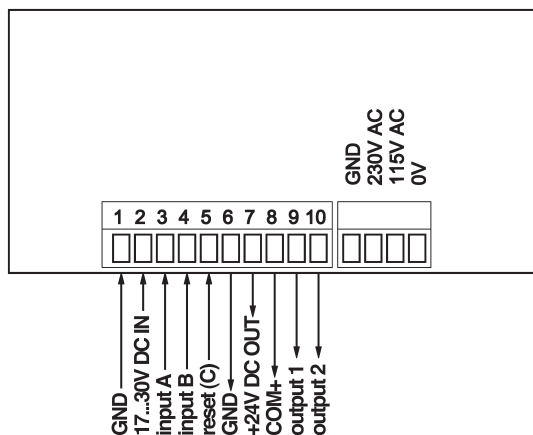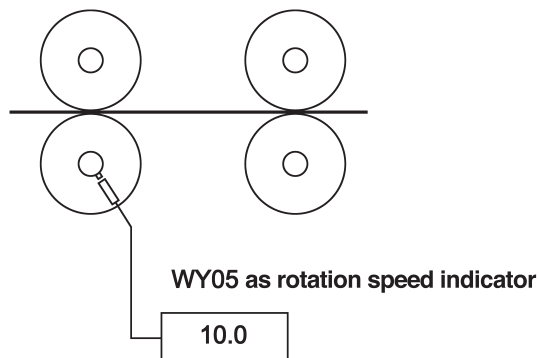
This data sheet contains the standard versions only. Kindly request the availability of other output- and connection functions.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.