

Hour meters / timers, electromechanical

Dual function counters

Pulse + time for DIN rail (AC+DC)

SHC 77



The counter combinations SHC 77 comprise an hour meter and a totalizer. They can be controlled both simultaneously and separately.

These DIN rail mount counters have a reduced mounting depth. They can be used in many different fields of application.

Characteristics

- Hour meter and totalizer in one single device optional: counters controlled separately.
- · Without reset.
- · High shock resistance.
- · Magnified large figures.
- Protection IP52 (on the front side).
- Data retention in case of power failure.

- · Long service life.
- UL-approved.

Applications

General counting, alarm systems, pay stations, electricity meters, vending and gaming machines, copying machines, medical equipment, car washes, lifts, heating burners.

Type series			
Description	Туре	Options	
Dual function counter, common connections	SHC 77	SHC 77:	The two meters are connected in parallel, this means, that the adding counter registers the total number of events and the time
Dual function counter, separate connections	SHC 77.60		meter the total operating time of the device.
Order information: Art. no. (for special voltages etc. indicate exact counter types, voltage and frequency e.g. SHC 77, 120 V AC, 60 Hz)			Hour meter and adding counter have two separate connections. This version is available for either AC or DC version (not mixed).

General technical data								
Operating indicator of the hour meter	AC DC	fast rotating wheels with red dashes: 99999.99 h 1/100 h display turns continuously by 1 digit per 36 s: 999999.99 h						
Height of figures		4 x 1.7 mm [0.16 x 0.067"] optical						
Color of figures	hour meter 1/10 u. 1/100 h adding counter	hours: white figures on black red figures on black white figures on black						
Operating temperature		-15 °C +50 °C [+5 °F +122 °F] (non-condensing)						
Relative humidity at +30 °C [+86 °F]		≤ 80 % (non-condensing)						
Altitude		up to 2000 m [6562']						
Mounting position		any						

Mechanical characteristics						
Protection		IP52 (front side) when built-in				
Color of housing		black (standard)				
Weight	SHC 77 SHC 77.60	85 g [3.00 oz] 105 g [3.70 oz]				

Electrical char	acteristics	
Electrical connect	SHC 77.60	screw terminal (tightening torque max. 0.8 Nm) 2 x cable — 2 x 0.5 mm² [AWG20] NYFAZ, 0.5 m [1.64'] hour meter red/black adding counter grey
Power consumption	10 30 V DC 36 80 V DC 100 130 V DC 20 30 V AC, 50 Hz 42 48 V AC, 50 Hz 100 130 V AC, 50 Hz 187 264 V AC, 50 Hz	approx. 1 W approx. 1.65 W approx. 1.75 W approx. 0.53 VA approx. 0.53 VA approx. 1.43 VA approx. 3.0 VA
Rated voltages	AC (50 or 60 Hz) DC	20 30/42 48/100 130/187 264 V 10 30/36 80/100 130 V
On time		100 %
Count mode		adding
Accuracy	AC DC	supply frequency + 30 ms < 0.003 % (at 24 h)
Reset		no reset
Test voltage		2500 V AC, 50 Hz
EMC standards		EN 55011 class B EN 61000-6-2, EN 61000-6-3
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2
UL approval		file E128604



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Dual function counters

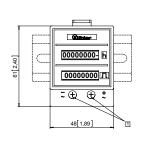
Pulse + time for DIN rail (AC+DC)

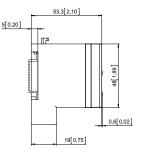
SHC 77

Dual function counter with common connections

Type SHC 77







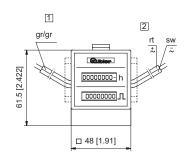
1 screw terminal

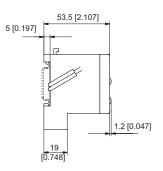
			Art. no.					
Туре	Display	Voltage	10 30 V	20 30 V	36 80 V	42 48 V	100 130 V	187 264 V
SHC 77	7/8 digits	AC (50 Hz)		3.553.401.071		3.553.401.072	3.553.401.074	3.553.401.075
	7/8 digits	AC (60 Hz)		3.553.401.081		3.553.401.082	3.553.401.084	3.553.401.085
	7/8 digits	DC	3.553.401.351		3.553.401.353		3.553.401.381	

Dual function counter with separate connections

Type SHC 77.60







1 adding counter

2 hour meter

			Art. no.					
Туре	Display	Voltage	10 30 V	20 30 V	36 80 V	42 48 V	100 130 V	187 264 V
SHC 77.60	7/8 digits	AC (50 Hz)		3.553.401.071.060		3.553.401.072.060	3.553.401.074.060	3.553.401.075.060
	7/8 digits	AC (60 Hz)		3.553.401.081.060		3.553.401.082.060	3.553.401.084.060	3.553.401.085.060
	7/8 digits	DC	3.553.401.351.060		on request		3.553.401.381.060	