

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

General technical data							
Operating indicator of the hour meter	AC	fast rotating wheels with red dashes					
	DC	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					
Colour 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)					
Mounting position		any					

Mechanical characteristics						
Protection		IP52 (front side) when built-in				
Colour of housing		black (standard)				
Weight	SHC 77 SHC 77.60	85 g [3.00 oz] 105 g [1.70 oz]				

Electrical characteristics							
Electrical con	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 consum	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	Emitted interference Immunity to interference	EN 55011 class B EN 61000-6-2					
Device safety	Designed to Protection class Application area	EN 61010 part 1 2 Pollution level 2					
UL approval		E128604					



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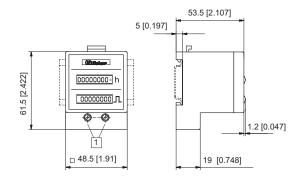
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Dual function counter with common connections Type SHC 77





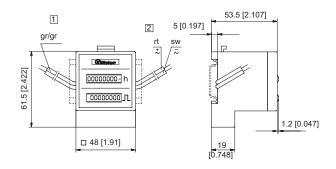
1 Screw terminal

			ArtNo.					
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
		AC (60 Hz)		3.553.401.081		3.553.401.082	3.553.401.084	3.553.401.085
		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

			DC	3.553.401.351.060		on request		3.553.401.381.060	
			AC (60 Hz)		3.553.401.081.060		3.553.401.082.060	3.553.401.084.060	3.553.401.085.060
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
Type		Display	Voltage	10 30 V	20 30 V	36 80 V	42 48 V	100 130 V	187 264 V
				ArtNo.					