

Hour meters / timers, electromechanical

Dual function counters

Pulse + time for DIN rail (AC+DC)

SHC77



The counter combinations SHC77 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	SHC77	SHC77:	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	SHC77.60		meter the total operating time of the device.			
Order information: Art. no. (for special voltages etc. indicate exact counter and frequency e.g. SHC77, 120 V AC, 60 Hz)	er types, voltage	SHC77.60:	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							

Electrical characteristics							
Electrical connecti	SHC77.60	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					
	n 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					
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2					



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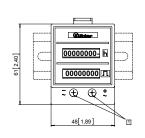
Mechanical chara		IP52 (front side) when built-in		
Housing color		black (standard)		
Weight	SHC77 SHC77.60	85 g [3.00 oz] 105 g [3.70 oz]		

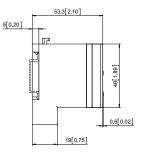
Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with EMC Directive	2014/30/EU
RoHS Directive Low Voltage Directive	2011/65/EU 2014/35/EU
UKCA compliant in accordance with EMC Regulations RoHS Regulations Low Voltage Regulations	S.I. 2016/1091 S.I. 2012/3032 S.I. 2016/1101

Dual function counter with common connections

Type SHC77







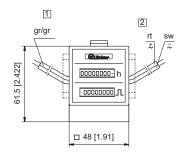
1 screw terminal

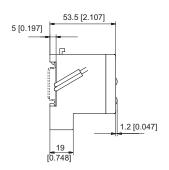
			Art. no.					
Туре	Display	Voltage	10 30 V	20 30 V	36 80 V	42 48 V	100 130 V	187 264 V
SHC77	7/8 digits	AC (50 Hz)		3.553.401.071		3.553.401.072	3.553.401.074	3.553.401.075
	7/8 digits	AC (60 Hz)		3.553.401.081		3.553.401.082	3.553.401.084	3.553.401.085
	7/8 digits	DC	3.553.401.351		3.553.401.353		3.553.401.381	

Dual function counter with separate connections

Type SHC77.60







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
SHC77.60	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	