



Electronic Multi-Range Repeat Cycle Timers

Electronic Multi-Range Repeat Cycle Timer

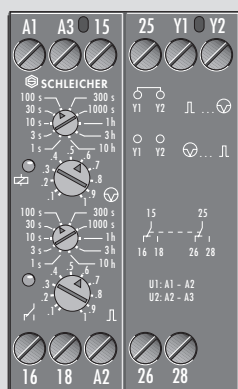
**SPT 72 D for dual voltage 24 V AC/DC and 230 V AC,
24 V AC/DC and 115 V AC or
42 V AC/DC and 60 V AC/DC**

Function: repeat cycle (TP), repeat cycle (TI) starting with ON or OFF (selectable through terminals Y1-Y2)

1 setting range divided into 10 time ranges

Contact equipment: 2 changeover

SPT 72 D



Function

TP and TI (see page S 1/3).

Different OFF and ON times can be selected on the relay front by means of selector switches. The smallest selector screws set the OFF and ON time scales. The larger selector screws set the OFF and ON times within a range. The repeat cycle timer can start with a pulse (ON) time (jumper between Y1 and Y2) or with a pause (OFF) time (no jumper).

Product Description

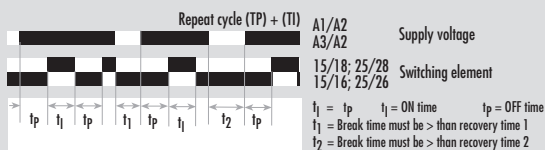
The electronic multi-range repeat cycle timer SPT 72 D, is available in 1 setting range, divided into 10 time ranges.

Setting Range	OFF/ON ON/OFF
0,05 s to 10 h divided into :	0,05 to 1 s 0,15 to 3 s 0,5 to 10 s 1,5 to 30 s 5 to 100 s 15 to 300 s 50 to 1000 s 0,05 to 1 h 0,15 to 3 h 0,5 to 10 h

Function Diagram

FD 0069

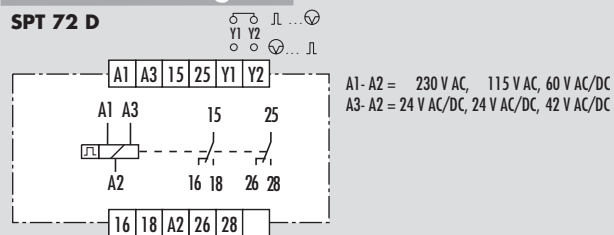
SPT 72 D



Connection Diagram

KS 0084/6

SPT 72 D



Type	Standard voltage	Special voltage	Price Code
SPT 72 D 10 h	24 V AC/DC and 230 V AC 24 V AC/DC and 115 V AC 42 V AC/DC and 60 V AC/DC 50 to 60 Hz		S 1/45.1

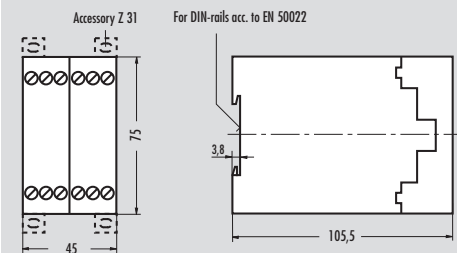
Accessories

- Cover Z 12 (sealable transparent cover)
- Holder Z 31 (holder to fix the housing with screws)

Price code for accessories (see page S 1/72).

Dimensions

S 6-1





Electronic Multi-Range Repeat Cycle Timers

TECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 1 110:04.89

Point 3.9

Function display
Function diagram

POWER SUPPLY

Rated voltage U_N V AC/DC
Rated voltage U_N V AC
Rated consumption at 50 Hz and U_N (AC) VA
Rated consumption at 50 Hz and U_N (AC) W
Rated consumption at U_N (DC) W
Starting current inrush A/ms
Rated frequency Hz
Operating voltage range

SPT 72 D

Electronic, multi-range repeat cycle timer for dual voltage
Repeat cycle with two different connections for supply voltage
1 LED green, 1 LED red
FD 0069

	24	24	42	60
	115	230		
	1,7	5,5	1,7	8,0
	1,5	1,2	1,5	1,6
	1,0		1,0	1,2
	1,5/2	,5/2	1,5/2	,5/3
			,1/6	,05/10
	50 to 60			
	0,8 to 1,1 x U_N			

TIME CIRCUIT

Time setting/Number of time ranges
Available setting ranges

analog/10
0,05 s to 10 h
divided into:
s 0,05 to 1; 0,15 to 3;
s 0,5 to 10; 1,5 to 30;
s 5 to 100; 15 to 300;
s 50 to 1000;
h 0,05 to 1; 0,15 to 3;
h 0,5 to 10
ms ca. 40/ca. 80

Recovery time 1/2 ms
Minimum switch-ON time ms
Release value % U_N
Repeat cycle starting with
Permissible parallel load
Internal rectifier
Average of the error
Dispersion % ± 10 ms
Influence of the energizing quantity or supply voltage %/% ΔU_N
Influence of the ambient temperature %/K

≥ 15
OFF/ON (selectable)
yes
no
diagram 4, page i.5
 $\leq \pm 0,5$
 $\leq 0,005$
 $\leq 0,005$

OUTPUT CIRCUIT

Contact equipment
Contact material
Switching voltage U_n V AC/DC
Maximum continuous current I_n A
Application category according to EN 60947-5-1:1991
Permissible switching frequency switching cycles/h
Mechanical service life switching cycles
Response time ms
Release time ms

2 changeover
Ag-alloy; gold-plated
230/230
5
AC-15 U_e 230 V AC, I_e 2 A
DC-13 U_e 24 V DC, I_e 2 A
6000
30 x 10⁶
-
ca. 40

GENERAL DATA

Creepage and clearance distances between circuits according to DIN VDE 0110-1:04.97: rated surge voltage kV
Over voltage category III
Contamination level 3 outside, 2 inside
Design voltage V AC 250
Test voltage U_{eff} 50 Hz acc. to DIN VDE 0110-1, Table A.1 kV 2,21
Protection class housing/terminals acc. to DIN VDE 0470 Sec. 1:11.92 IP 30/IP 20
Radiated noise EN 50081-1:03.93, -2:03.94
Noise immunity EN 50082-2:1995
Ambient temperature, working range °C -20 to +60
Dimensions S 6-1
Connection diagram KS 0084/6
Weight kg 0,18
Accessories cover Z 12, holder Z 31
Approvals page i.4

4
III
3 outside, 2 inside
250
2,21
IP 30/IP 20
EN 50081-1:03.93, -2:03.94
EN 50082-2:1995
-20 to +60
S 6-1
KS 0084/6
0,18
cover Z 12, holder Z 31
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GENERAL TECHNICAL SPECIFICATIONS

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