

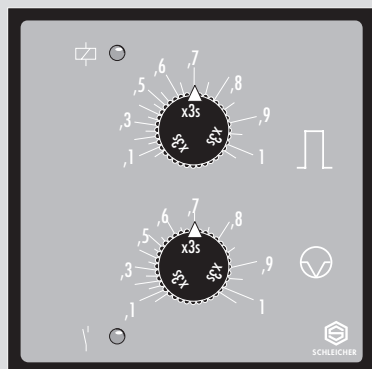


Electronic Repeat Cycle Timers

DPT 32 L, DPT 42 L for single voltage, starting with OFF (TP)
DPT 52 L, DPT 62 L for single voltage, starting with ON (TI)

Function: repeat cycle (TP), repeat cycle (TI)
1 time range
Contact equipment: 2 changeover

DPT 32 L, ...



Function

TP and TI (see page D 3/3).

Different OFF and ON times can be selected infinitely variable on the timer's front by means of two rotary knobs.

Product Description

The electronic repeat cycle timers DPT ... are single range items and available in the following time ranges:

Time Ranges (separately adjustable for ON and OFF)

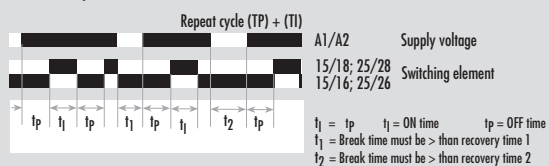
0,05	to	1 s
0,15	to	3 s
0,5	to	10 s
1,5	to	30 s
5	to	100 s
15	to	300 s
0,5	to	10 min
1,5	to	30 min
0,05	to	1 h
0,15	to	3 h
0,5	to	10 h

Type	Standard voltage	Special voltage	Price Code
DPT 32 L 1 s	24 V AC/DC	42 V AC/DC	D 3/74.1
DPT 32 L 3 s	110 to 127 V AC	48 V AC/DC	
DPT 32 L 10 s	220 to 240 V AC	60 V AC/DC	
DPT 32 L 30 s	50 to 60 Hz	50 to 60 Hz	
DPT 32 L 100 s			
DPT 32 L 300 s			
DPT 32 L 10 min			
DPT 32 L 30 min			
DPT 32 L 1 h			
DPT 32 L 3 h			
DPT 32 L 10 h			
DPT 52 L 1 s	24 V AC/DC	42 V AC/DC	D 3/74.2
DPT 52 L 3 s	110 to 127 V AC	48 V AC/DC	
DPT 52 L 10 s	220 to 240 V AC	60 V AC/DC	
DPT 52 L 30 s	50 to 60 Hz	50 to 60 Hz	
DPT 52 L 100 s			
DPT 52 L 300 s			
DPT 52 L 10 min			
DPT 52 L 30 min			
DPT 52 L 1 h			
DPT 52 L 3 h			
DPT 52 L 10 h			
DPT 42 L 1 s	110 to 127 V DC	—	D 3/74.3
DPT 42 L 3 s	220 V DC		
DPT 42 L 10 s	240 V DC		
DPT 42 L 30 s			
DPT 42 L 100 s			
DPT 42 L 300 s			
DPT 42 L 10 min			
DPT 42 L 30 min			
DPT 42 L 1 h			
DPT 42 L 3 h			
DPT 42 L 10 h			

Function Diagram

FD 0069

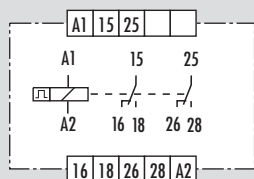
DPT 32 L, ...



Connection Diagram

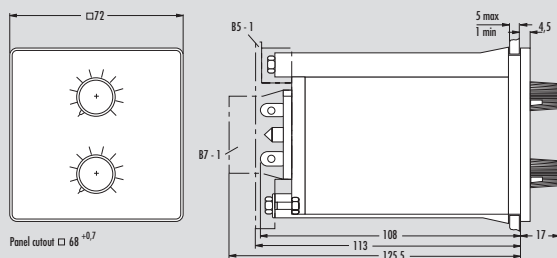
KS 0084/5

DPT 32 L, ...



Dimensions

D 1-16



Continued on the next page



Product Description

Type	Standard voltage	Special voltage	Price Code
DPT 62 L 1 s	110 to 127 V DC	—	D 3/74.4
DPT 62 L 3 s	220 V DC		
DPT 62 L 10 s	240 V DC		
DPT 62 L 30 s			
DPT 62 L 100 s			
DPT 62 L 300 s			
DPT 62 L 10 min			
DPT 62 L 30 min			
DPT 62 L 1 h			
DPT 62 L 3 h			
DPT 62 L 10 h			

Accessories

Socket connector	B 5	for panel and surface mounting
Pin holder	B 7	for panel mounting
Adaptor	BT 421	for DIN-rail mounting of the socket connector B 5
Cover	DA 1	for panel cutout
Lockable cover	V 4	
Seal	Z 1	for panel mounting

Price code for accessories (see page D 3/79).



Electronic 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
Rated voltage U_N

V AC/DC
V AC

Rated voltage U_N

V DC

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

TIME CIRCUIT

Time setting/Number of time ranges

Available time ranges

Recovery time 1/2

Minimum switch-ON time

Release value

Repeat cycle

Permissible parallel load

Internal rectifier

Average of the error

Dispersion

Influence of the energizing quantity or supply voltage

Influence of the ambient temperature

DPT 32 L, DPT 52 L

Electronic repeat cycle time relay
for single voltage,

Repeat cycle

DPT 32 L starting with OFF

DTP 52 L starting with ON

1 LED green, 1 LED red

FD 0069

	24	42	48	60	110-127	220-240
Rated consumption at 50 Hz and U_N (AC) VA	1,9	1,8	1,9	1,7	2,8	5,5
Rated consumption at 50 Hz and U_N (AC) W	1,7	1,6	1,7	1,4	1,4	2,0
Rated consumption at U_N (DC) W	1,3	1,4	1,4	1,0		
Starting current inrush A/ms	1,5/3	,8/1	,6/1	,7/1	,6/5	,5/5
Rated frequency Hz	50 to 60					
Operating voltage range	0,8 to 1,1 x U_N					

analog/1

0,05 to 1; 0,15 to 3;

0,5 to 10; 1,5 to 30;

5 to 100; 15 to 300;

0,5 to 10; 1,5 to 30

0,05 to 1; 0,15 to 3;

0,5 to 10

ca. 40/ca. 80

-

≥ 15

starting with OFF DPT 32 L,

starting with ON DPT 52 L

yes

no

diagram 4, page i.5

$\leq \pm 0,5$

$\leq 0,02$

$\leq 0,025$

DPT 42 L, DPT 62 L

Electronic repeat cycle time relay
for single voltage,

Repeat cycle

DPT 42 L starting with OFF

DTP 62 L starting with ON

1 LED green, 1 LED red

FD 0069

	110-127	220	240
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	2,6 ,1/5	2,8 ,1/8	3,0 ,1/8
Rated frequency Hz	50 to 60		
Operating voltage range	0,8 to 1,1 x U_N		

analog/1

0,05 to 1; 0,15 to 3;

0,5 to 10; 1,5 to 30;

5 to 100; 15 to 300;

0,5 to 10; 1,5 to 30

0,05 to 1; 0,15 to 3;

0,5 to 10

ca. 40/ca. 80

-

≥ 15

starting with OFF DPT 42 L,

starting with ON DPT 62 L

yes

no

diagram 4, page i.5

$\leq \pm 0,5$

$\leq 0,02$

$\leq 0,025$

OUTPUT CIRCUIT

Contact equipment

Contact material

Switching voltage U_n

Maximum continuous current I_n

Application category according to EN 60947-5-1:1991

Permissible switching frequency

Mechanical service life

Response time

Release time

V AC/DC
A

switching cycles/h

switching cycles

ms

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

30×10^6

-

ca. 40

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

30×10^6

-

ca. 15

GENERAL DATA

Creepage and clearance distances between circuits
according to DIN VDE 0110-1:04.97: rated surge voltage

kV

Over voltage category

Contamination level

Design voltage

V AC

Test voltage U_{eff} 50 Hz acc. to DIN VDE 0110-1, Table A.1

kV

Protection class: Housing front panel/housing rear panel/flat pin terminal

Radiated noise

Noise immunity

4

III

3 outside, 2 inside

250

2,21

IP 50/IP 20/IP 00

EN 50081-1:03.93, -2:03.94

EN 50082-2:1995

4

III

3 outside, 2 inside

250

2,21

IP 50/IP 20/IP 00

EN 50081-1:03.93, -2:03.94

EN 50082-2:1995

Ambient temperature, working range

$^{\circ}$ C

Dimensions

Connection diagram

Weight

Accessories

-20 to + 60

D 1-16

KS 0084/5

0,45

cover DA 1, lockable cover V 4,

seal Z 1, socket connector B 5,

pin holder B 7,

adaptor BT 421

page i.4

-20 to + 60

D 1-16

KS 0084/5

0,45

cover DA 1, lockable cover V 4,

seal Z 1, socket connector B 5,

pin holder B 7,

adaptor BT 421

page i.4

Approvals

GENERAL TECHNICAL SPECIFICATIONS

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page i.5

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