



Digital Time Relays

DZD 32-S L, DZD 32 L for single voltage

Function: ON-delay (AV)

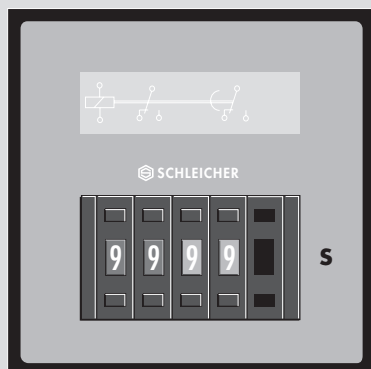
1 time range, digital time setting

Contact equipment: DZD 32-S L = 1 timed and 1 instantaneous changeover

DZD 32 L = 2 timed changeover

DZD 32-S L, ...

72 x 72



Function

AV (see page D 3/3).

The setting of the set value is done on the timer's front by means of a decimal preselector switch with 4 or 3 sets of pushbuttons (depending on the time range).

Product Description

The digital time relays DZD 32-S L, ... are single range devices and available in the following time ranges:

Time Range

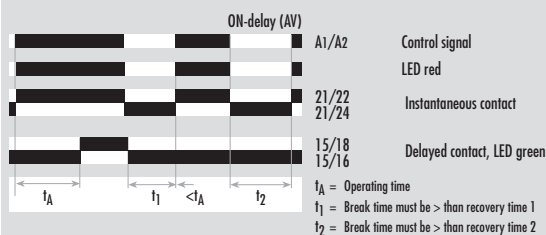
0,01	to	9,99 s
0,1	to	99,9 s
0,01	to	9,99 min
0,1	to	99,9 min
0,01	to	9,99 h
0,1	to	99,9 h

0,01	to	99,99 s
0,1	to	999,9 s
1	to	9999 s
0,01	to	99,99 min
0,1	to	999,9 min
1	to	9999 min

Function Diagram

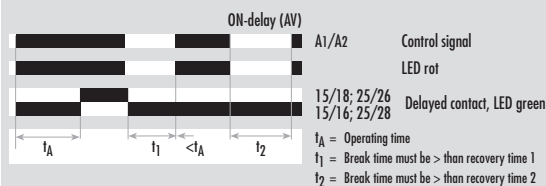
FD 0053

DZD 32-S L



DZD 32 L

FD 0052



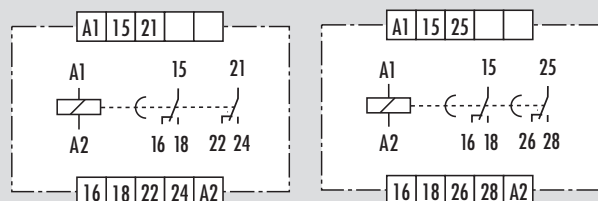
Connection Diagram

DZD 32-S L

KS 0191/2

DZD 32 L

KS 0085/4



Type	Standard voltage	Special voltage	Price Code
DZD 32-S L ... 9,99 s 99,9 s 9,99 min 99,9 min 9,99 h 99,9 h	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	D 3/18.1
DZD 32-S L ... 99,99 s 999,9 s 9999 s 99,99 min 999,9 min 9999 min	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	D 3/18.2
DZD 32 L ... 9,99 s 99,9 s 9,99 min 99,9 min 9,99 h 99,9 h	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	D 3/18.3
DZD 32 L ... 99,99 s 999,9 s 9999 s 99,99 min 999,9 min 9999 min	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	D 3/18.4

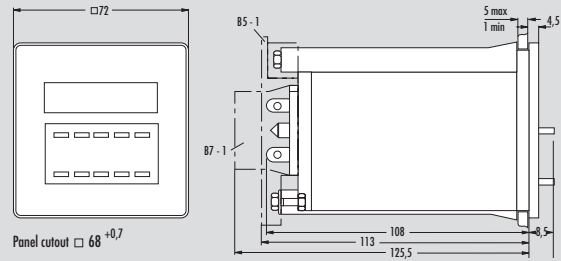
Accessories

Socket connector	B 5	for panel and surface mounting
Pin holder	B 7	for panel mounting
Cover	DA 1	for panel cutout
Lockable cover	V 4	
Seal	Z 1	

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

Dimensions

D 1-29





TECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 110:04.89

Point 3.12

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 DC W
Rated frequency Hz
Operating voltage range

TIME CIRCUIT

Time setting/Number of time ranges
Available setting range
Recovery time 1/2 ms
Minimum switch-ON time ms
Release value % U_N
Permissible parallel load
Internal rectifier
Average of the error % ± 10 ms
Dispersion % ± 10 ms
Influence of the energizing quantity or supply voltage %/% ΔU_N
Influence of the ambient temperature %/K

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 of the instantaneous changeover ms
Release time of the timed/instantaneous changeover ms

GENERAL DATA

Creepage and clearance distances between circuits acc. 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
Ambient temperature, working range °C
Dimensions
Connection diagram
Weight kg
Accessories

Approvals

GENERAL TECHNICAL SPECIFICATIONS

DZD 32-S L

Digital adjustable single range time relay for single voltage
ON-delay time relay
2 LED
FD 0053

24	42	48	60	110-127	220-240
3,6	3,2	3,5	2,5	4,0	7,8
3,2	2,9	3,3	2,4	2,2	3,1
2,4	2,2	2,4	1,8		
50 to 60					
0,8 to 1,1 x U_N					

digital/1
0,01 to 9,99; 0,1 to 99,9;
0,01 to 9,99; 0,1 to 99,9;
0,01 to 9,99; 0,1 to 99,9;
0,01 to 99,99; 0,1 to 999,9;
1 to 9999;
0,01 to 99,99; 0,1 to 999,9;
1 to 9999
ca. 35/ca. 70
-
 ≥ 15
yes
no
 $\leq \pm 0,5$
 $\leq \pm 0,5$
 $\leq 0,02$
 $\leq 0,025$

1 timed and 1 instantaneous 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. 20
ca. 20/ca. 15

4
III
3 outside, 2 inside
250
2,21
IP 40/IP 20/IP 00
EN 50081-1:03.93, -2:03.94
EN 50082-2:1995

-20 to + 60
D 1-29
KS 0191/2
0,2
cover DA 1, sealable cover V 4, seal Z 1, socket connector B 5, pin holder B 7
page i.4

page i.5

DZD 32 L

Digital adjustable single range time relay for single voltage
ON-delay time relay
2 LED
FD 0052

24	42	48	60	110-127	220-240
1,7	2,1	1,9	1,6	1,8	5,8
1,3	1,7	1,8	1,3	0,9	1,5
1,4	1,4	1,5	0,8		
50 to 60					
0,8 to 1,1 x U_N					

digital/1
0,01 to 9,99; 0,1 to 99,9;
0,01 to 9,99; 0,1 to 99,9;
0,01 to 9,99; 0,1 to 99,9;
0,01 to 99,99; 0,1 to 999,9;
1 to 9999;
0,01 to 99,99; 0,1 to 999,9;
1 to 9999
ca. 35/ca. 70
-
 ≥ 15
yes
no
 $\leq \pm 0,5$
 $\leq \pm 0,5$
 $\leq 0,02$
 $\leq 0,025$

2 timed 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. 25

4
III
3 outside, 2 inside
250
2,21
IP 40/IP 20/IP 00
EN 50081-1:03.93, -2:03.94
EN 50082-2:1995

-20 to + 60
D 1-29
KS 0085/4
0,2
cover DA 1, sealable cover V 4, seal Z 1, socket connector B 5, pin holder B 7
page i.4

page i.5

3