

Technical Data

DZE 12-SL / DZE 34-2SL



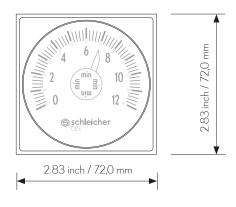
Response-delay single-range time-delay relay - electronic

- Devices for mono-voltage
- Response delay (RD)
- 1 Time range
- Contact complement:
 DZE 12-SL: 1 immediate and 1 delayed changeovers
 DZE 34-2SL: 1 immediate and 1 delayed make-break contacts
- Front dimensions: 2.83 x 2.83 inch / 72,0 x 72,0 mm

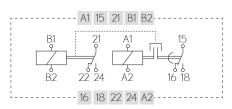
Function

On excitation of A1/A2 and B1/B2 (B1/B2 only in DZE 12-SL), the instantaneous contact is brought to the working position and the timing period begins. Once the preset time is reached, the time contact is activated. After de-excitation, the timer and all contacts go to the initial position. If voltage is interrupted during the timing period, then the instantaneous contact and timer fall to the initial position. During the timing period the operating time can be reduced but not increased. On resetting to zero, both contacts switch instantaneously. The DZE component is out-of-the-box directly interchangeable with electromechanical relay precursor models.

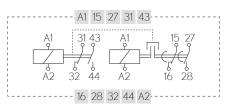
Dimension drawing



Circuit diagrams



DZE 12-SL / KS 232-1



DZE 34-2SL / KS 232-2

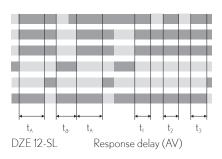
Accessories

Туре	Name	For device	Article no.
B5	Jack plate for installation and surface mounting	DZE 12-SL	R9.211.0089.0
B7	Plug-in holder for installation	DZE 12-SL	R9.211.0209.0
В8	Plug-in holder for installation	DZE 34-2SL	R9.211.0259.0
DA1	Cover, black for panel cutout	DZE 12-SL / DZE 34-2SL	R9.211.0399.0
V4	Lockable cap, transparent	DZE 12-SL / DZE 34-2SL	R9.211.0179.0
Z1	Seal for panel mounting, black	DZE 12-SL / DZE 34-2SL	R9.211.0199.0

Time ranges

Adjustment ranges available:			
Seconds	Minutes	Hours	
3 s	3 min	3 h	
6 s	6 min	6 h	
30 s	12 min	30 h	
60 s	30 min	60 h	
	60 min		

Function charts

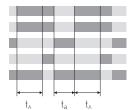


A1/A2 Controlled variable B1/B2 Controlled variable

21/24 Instantaneous contact element 21/22 Instantaneous contact element

15/18 Delayed contact element15/16 Delayed contact element

 t_A = Operating time = $\sum_{1}^{n} t_x$ t_a = Recovery time



A1/A2 Controlled variable

43/44 Instantaneous contact elemen

31/32 Instantaneous contact elemen

27/28 Delayed contact element

15/16 Delayed contact element

t_a = Operating time

 $DZE\ 34-2SL \qquad Response\ delay\ (AV)$

Product properties

Product standard (time-delay relay) EN 61812-1: 2011

Function typeAnalogue adjustable time-delay relay for mono-voltage

Function indicator: LED scale (with 13 LEDs) for operating time

Supply circuit

Nominal voltage U_N: 24 V AC/DC, 115 V AC, 230 V AC

Nominal frequency: 50 and 60 Hz Operating voltage range: 5,8 to 1,1 x U_N

Rated power: approx. 2,5 VA / approx. 2,3 W

Timing circuit

Time setting / Number of time ranges: analog / 1

Time ranges available: see Table "Time Ranges"

Recovery time: \leq 450 ms Minimum on-time: \leq 150 ms Errors (average of full-scale value): \pm 5 %

Repeat accuracy (deviation from average):
Output circuit

Contact complement: DZE 12-SL: 1 immediate and 1 delayed changeovers

DZE34-2SL: 1 immediate and 1 delayed make-break contacts

±1%

Contact material: $AgSnO_2 \\$

Nominal switching voltage U_n : 250 V AC / 30 V DC

 Utilization category to DIN EN 60947-5-1
 AC-15: 250 V AC, I 3 A

 (VDE 0660 Part 200): 2000-08; EN 60947-5-1
 DC-13: 250 V DC, I 0,2 A

1997 + A12: 1999 + A1: 1999 + A2: 2000:

Permitted operating frequency: ≤1200 Operating cycles/h

Mechanical endurance: 10^7 Operating cycles Electrical endurance (in the case of resistive load and 20 operating cycles per minute): 10^5 (AC), 5^* 10^4 (DC)

Response time: ≤10 ms
Release time: ≤10 ms

General data

Air clearance and creepage distances between the electric circuits to: DIN EN 60664-1: 2008-01; VDE 0110-1: 2008-01

Impulse voltage withstand level: 4 kV

Overvoltage category:

Pollution severity:

3 outside, 2 inside

Rated voltage: AC 250 V Test voltage $U_{\rm eff}$ 50 Hz to DIN VDE 0110-1, table A.1: 2.21 kV

Type of protection to DIN EN 60529: Front of casing / Rear of casing / Flat connector P 55 / P 20 / P 00 Ambient temperature, operating range: P 55 / P 20 / P 00 P 7 - 10 bis +55 °C

Weight: 0.66 lbs. / 0,3 kg