

Timer and switching devices

“Technical intermediary” between the power and control level

Timer and switching devices are tried and tested as intermediaries between the intelligent logic level – e.g. a control device or other computer system – and the high-performance machines that they control. They create an information interface, which includes electrical isolation between the low-voltage range in which the logic works, and the machine operation, which has high electrical power consumption.

Schleicher supplies a wide range of timer and switching relays with a variety of performance features and functions. This range of equipment, which was developed through dialogue with the market, facilitates precise component selection in accordance with the requirements of your field of application.

Time relay

- + On-delayed
- + Off-delayed
- + On-delayed and off-delayed
- + On and/or off-wipe (impulse generator)

Function relays

- + Impulse generator
- + Blinker relay
- + Relay for a star-delta switch
- + Impulse counter
- + Coupling relays
- + Latching relays

Overview of timer & switching devices

The type overview includes a selection of the latest devices; additional types are available on request.

		DZ 12-SL	DZN 12-SL	DZ 52-SL	DZA 52-SL	DZD 92 L	KPT 11 KD	KSP 12	KZL/KMZ 71	KZL/KMZ 72	KZL/KMZ 91	KZL/KMZ 92	KITZ H11	NGB 12	NGD 31	NGM 1004	NGM 1600	NGS 12	NGZ 11	NGZ 12	NGZ 12-S	NGZ 71	NGZ 310	NGZ 710	NGZ 720	NGZP 32	SSP 56	SSY 12	UZD 51
LAYOUT	Multifunction					8		4	4	8	8					10	18											3	8
	Monofunction							•	•					•	•	•		•	•	•	•	•	•	•	•	•	•		
	Multi-range			5/6	6	7	10		7	7	7						16	16					13		16	16			8
	Single-range	•	•	•	•									•		•				•	•	•		•			•		
	Fixed time														•														•
TIME RELAY	Response delay	•		•	•	•			•	•	•	•	•				•	•		•	•	•	•			•		•	
	Response delay (impulse control)		•																										•
	Off-delay						•				•	•					•	•						•	•				•
	Off-delay without auxiliary voltage																							•					
	Response & off-delay, symmetrical interval						•				•	•						•											
	Wiper switch-on						•		•	•	•	•					•	•										•	•
	Wiper off						•										•	•										•	
	Wiper on & off											•	•					•										•	
IMPULSE GENER.	Start of pause, symmetrical & adjustable						•				•	•																	•
	Start of pause, pause & impulse adjusted separately						•																						
	Start of impulse, symmetrically adjustable						•		•	•	•	•																	
	Start of impulse, symmetrical & fixed adjustment																•												
	Start of pause & impulse, symmetrical & fixed cycle time adjustment range																	•											
FUNCT. RELAY	Impulse generator, response delay, impulse output								•	•	•	•					•	•											
	Impulse generator, start of pause, adjustable pause time, fixed impulse time																•												
	Impulse generator, pauses & impulse time adjustable																	•											
	Impulse generator (wiper switch-on)						•										•	•											
	Blinking relay, start of pause, symmetr., fixed adjustm.															•													
	Coupling relays with instantaneous changeover																												
	Latching relays, zero-voltage								•																			•	
	Star-delta relay: Switch, wiper switch-on															•		•											
CONTACTS	Delayed switch-over	1	1	1	1	2 ²	1		1	2 ²	1	2 ²	1 ³	2		1	2 ¹		1	2	1	1	1	1	2	2		1	1
	Timer relay															2													1
	Instantaneous changeover	1	1	1	1	1 ²		1		1 ²	1 ²						1 ¹	2			1								
	Closer/opener per							1																				3	
	Multi-voltage AC/DC 24 - 230V									•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	Separate voltage ranges						•	•	•					•					•									•	•
SPECIAL FEATURES	Remote potentiometer connection																										•		
	Zero-voltage		•						•																				•
	Adding (+) or adding/subtracting (±)	+	+	+	+												+	+											±
	Ready signal via B1 (B) or Reset (R)																B												R
	Digital (D) & analogue (A) adjustment	A	A	A	A	AD	A		A	A	A	A	A		A	A	A		A	A	A	A	A	A	A	A	A		D
HOUSING	Rack: 48.0 x 48.0 mm / 1.9 x 1.9 in																												•
	72.0 x 72.0 mm / 2.8 x 2.8 in	•	•	•	•	•																							
	Built-on enclosure: 22.5 mm / 0.9 in								•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	45.0 mm / 1.8 in																											•	•

¹ = 1 timed and instantaneous changeover contact or 2 timed changeover contacts, depending on the function

² = 1 timed and instantaneous changeover contact or 2 timed changeover contacts, adjustable ³ = semiconductors