

Relays, Control & Signaling
Lebanon Price list
2018 - 2019

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Price List 2018



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Notes

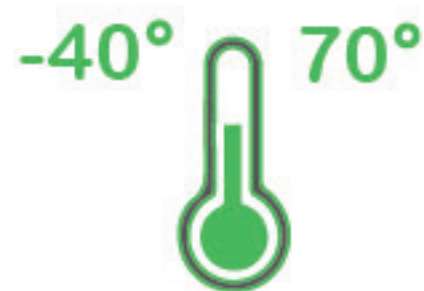
Harmony Ø22 Control & Signaling Units

Harmony XB4



Ø22 Modular Metal

Operating Temperature



IP



up to

Durability

Mechanical	up to 10 M cycle
Electrical	up to 1 M cycle
Surface Life for LED Modules	100 K hour

Certification

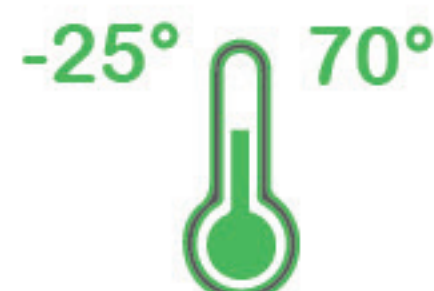


Harmony XB7



Ø22 Mono-bloc Plastic

Operating Temperature



IP



up to

Durability

Mechanical	up to 1 M cycle
Electrical	up to 1 M cycle
Surface Life for LED Modules	70 K hour

Certification

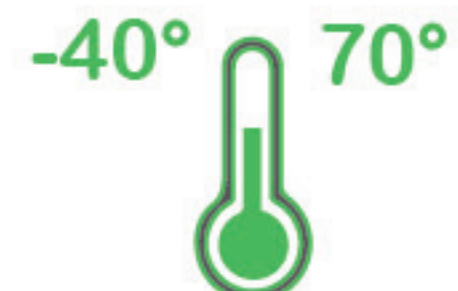


Easyline XA2



Ø22 Modular Plastic with metal ring

Operating Temperature



IP



up to

Durability

Mechanical	1.5 M cycle
Electrical	0.5 M cycle
Surface Life for LED Modules	50 K hour

Certification



IK

IK00

IK01

IK02

IK03

IK04

IK05

IK06

IK07

IK08

IK09

IK10

XA2

XB4

Harmony 22 XB4 Metal IP65 Complete

Pushbutton (Dia.22mm) IP66, IP67, IP69, and IP69K

Pushbuttons, chromium plated metal bezel, spring return



Description	Contact	Colour	Reference	Price
Flush	NO	Black	XB4BA21	7.9
Flush	NO	Green	XB4BA31	7.9
Flush	NO	Yellow	XB4BA51	7.9
Flush	NO	Blue	XB4BA61	7.9
Flush	NC	Red	XB4BA42	7.9

Illuminated flush pushbuttons, spring return with 1 NO contact and 1 NC contact



Description	Supply voltage	Colour	Reference	Price
Direct Protected LED Included	24VAC/DC	Green	XB4BW33B5	19.9
		Yellow	XB4BW34B5	19.9
		Red	XB4BW35B5	20
	240-230 AC	Green	XB4BW33M5	26.8
		Yellow	XB4BW34M5	26.8
		Red	XB4BW35M5	27

Illuminated flush pushbuttons, spring return with 1 NO contact and 1 NC contact



Description	Colour	Reference	Price
Direct Bulb not included ≤ 250V	Green	XB4BW3365	14.8
	Red	XB4BW3465	14.8
	Yellow	XB4BW3565	14.8

Double headed pushbuttons, chromium plated metal bezel, spring return.



Description	Contact	Reference	Price
Flush black pushbutton & Projecting red pushbutton	NO+NC	XB4BL73415	17.2

Double - headed spring return pushbuttons, with Protected LED



Description	Contact	Supply Voltage	Reference	Price
1 flush black push button, 1 white LED & 1 projecting red push button	Protected LED NO+NC	220 VAC	XB4BW73731M5	29
		110 VAC	XB4B73731G5	25.3
		24 VAC/DC	XB4B73731B5	23.6

* All Prices are in EUR and not including VAT

Pilot Lights (Dia.22mm)

IP66, IP67, IP69, and IP69K

Pilot lights with Protected LED



Description	Supply Voltage	Colour	Reference	Price
Direct With Protected LED	24VAC/DC	White	XB4BVB1	10.8
		Green	XB4BVB3	10.8
		Red	XB4BVB4	10.8
		Yellow	XB4BVB5	10.8
		Blue	XB4BVB6	10.8
	230-240VAC	White	XB4BVM1	13.2
		Green	XB4BVM3	13.2
		Red	XB4BVM4	14.9
		Yellow	XB4BVM5	14.9
		Blue	XB4BVM6	15

Pilot lights with chromium plated metal bezel, diameter 22mm



Description	Supply Voltage	Colour	Reference	Price
Direct Bulb not included	≤ 250V	Green	XB4BV63	7.8
		Red	XB4BV64	7.8
		Yellow	XB4BV65	7.8

Light Blocks with Protected LED



Description	Supply Voltage	Colour	Reference	Price
Integral LED (To Combine With Heads For Integral LED)	24VAC/DC	White	ZBVB1	5.7
		Green	ZBVB3	5.7
		Red	ZBVB4	5.7
		Yellow	ZBVB5	5.7
		Blue	ZBVB6	5.7
	230-240VAC	White	ZBVM1	9.8
		Green	ZBVM3	9.8
		Red	ZBVM4	9.8
		Yellow	ZBVM5	9.8
		Blue	ZBVM6	9.8

* All Prices are in EUR and not including VAT

Selector Switches (Dia.22mm)

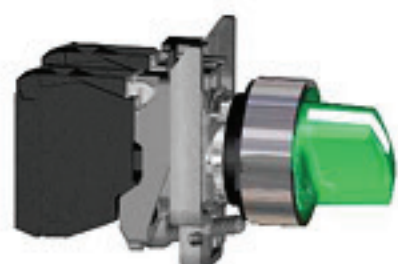
IP66, IP67, IP69, and IP69K

Selector switches



Description	Contact/Operator	Reference	Price
2 position	NO/standard Handle	XB4BD21	10.3
	NO+NO/Stand.Handle	XB4BD25	13.1
3 position	NO+NO/Stand.Handle	XB4BD33	12.8
	NO+NO/Stand.Handle	XB4BD53	15.4

Illuminated selector switches with Integral LED (2-position stay put)



Description	Supply Voltage	Colour	Reference	Price
2 position, NO+NO/Stand.Handle	24 V AC/DC	Green	XB4BK123B5	22.5
		Red	XB4BK124B5	22.5
		Yellow	XB4BK125B5	22.5
	230-240VAC	Green	XB4BK123M5	28.5
		Red	XB4BK124M5	28.5
		Yellow	XB4BK125M5	28.5

Key selector switches



Description	Contact/Key withdrawal Position	Reference	Price
2 position	NO/Left hand position	XB4BG21	24.6
3 position stay put	NO+NO/Center Position	XB4BG33	28.5

Emergency switch Pushbutton (Dia.22mm)

IP66, IP67, IP69, and IP69K

Mushroom head Emergency Stop pushbuttons



Description	Size	Contact	Reference	Price
Turn to release	Dia, 40mm	NC	XB4BS8442 (ZB4BZ102 + ZB4BS844)	17.3
Key release	Dia, 40mm	NC	XB4BS9442 (ZB4BZ102 + ZB4BS944)	23.3

* All Prices are in EUR and not including VAT

Harmony 22 ZB4 IP66, IP67, IP69, and IP69K

Illuminated latching Pushbuttons with LED



Description	Reference	Price
Flush / NO	ZB4BH013+ ZB4BW0M11	27.3

Additional/Replacement contact block



Description	Contact	Reference	Price
For making up body assemblies with maximum of 9 contact blocks or replacing 1st. or 2nd.contact	NO	ZBE101	2.9
	NC	ZBE102	3

New Special Functions - Harmony+

XB4 Complete Potentiometer



Resistance Value	Reference	Price
1 k Ω	XB4BD912R1K	61
4.7 k Ω	XB4BD912R4K7	61
10 k Ω	XB4BD912R10K	61
47 k Ω	XB4BD912R47K	61
100 k Ω	XB4BD912R100K	61
470 k Ω	XB4BD912R470K	61

New Special Functions - Harmony+

XB5 Complete Potentiometer



Resistance Value	Reference	Price
1 k Ω	XB5AD912R1K	58
4.7 k Ω	XB5AD912R4K7	58
10 k Ω	XB5AD912R10K	58
47 k Ω	XB5AD912R47K	58
100 k Ω	XB5AD912R100K	58
470 k Ω	XB5AD912R470K	58

* All Prices are in EUR and not including VAT

Panel-mounted USB and RJ45 ports in 22.5 mm/ 0.886 in. hole with notch



Type	IP rating	Reference	Price
«USB interface, jack type A»	IP 20 Can reach IP 65, IP 67, IP 69K with protection cover	XB5PUSB3	30.5
«Ethernet interface, RJ45 jack»	IP 20 Can reach IP 65, IP 67, IP 69K with protection cover	XB5PRJ45	30.5
Black Plastic protection cover	IP65/ IP67	ZBSP1	5.5
Transparent Plastic protection cover	IP65/ IP67	ZBSP2	15.4
Metal protection cover	IP65/ IP67/ IP69K	ZBSP3	72.7

Control Stations

Empty Enclosures



Description	Number of cut-outs	Reference	Price
Light grey base with dark grey lid	1	XALD01	9.3
	2	XALD02	12.2
	3	XALD03	14.6
	4	XALD04	20.9

Electric Blocks For mounting in back of enclosure



Contact Type	Reference	Price
NO	ZENL1111	3
NC	ZENL1121	3

Complete "Emergency Stop" function With Marking



Description	Contact Type	Reference	Price
1 Red mushroom head push button (Turn to release)	1NC	XALK178	15.2
1 Red mushroom head push button (Key release)	1NC	XALK174	15.4

* All Prices are in EUR and not including VAT

Harmony 22 XB7 IP54 Plastic Complete

Economic Push-button IP65

Pushbuttons Flush, spring return



Description	Contact	Colour	Reference	Price
Spring return	NO	Green	XB7NA31	3.4
	NC	Red	XB7NA42	3.4
	NO+NC	Black	XB7NA25	4.5
	2 NO	Green	XB7NA33	4.5
Latching	NO	Green	XB7NH31	5.1
	NO+NC	Black	XB7NH25	6.2

Illuminated pushbutton, spring return, projecting push



Description	Contact	Colour	Reference	Price
230VAC without bulb	NO	Green	XB7NW3361	6.4
	NO	Red	XB7NW3461	6.4
	NO	Orange	XB7NW3561	6.4

Pilot Lights (Dia.22mm) IP65

Pilot lights, economic, for incandescent bulb (not included)



Description	Supply Voltage	Colour	Reference	Price
Incandescent. bulb	<=250V	Green	XB7EV63P	2.8
		Red	XB7EV64P	2.6
		Yellow	XB7EV65P	2.9
		Blue	XB7EV66P	2.9

* All Prices are in EUR and not including VAT

Pilot lights, economic,with integral led IP 65



Description	Supply Voltage	Colour	Reference	Price
Integral led	24V	Green	XB7EV03BP	2.5
		Red	XB7EV04BP	2.4
		Yellow	XB7EV05BP	2.4
	230V	Green	XB7EV03MP	4.1
		Red	XB7EV04MP	4.3
		Yellow	XB7EV05MP	4.3
		Blue	XB7EV06MP	4.3
		Clear	XB7EV07MP	4.2

Selector switch IP65.

Economic selector switches



Description	Contact	Operator/ Body	Reference	Price
2 position stay put	NO	Plastic	XB7ND21	4.4
	NO+NC	Plastic	XB7ND25	5.2
3 position stay put	NO+NO	Plastic	XB7ND33	5.3

Emergency switch Pushbutton (Dia.22mm) IP54

Emergency stop mushroom head pushbuttons,Dia. 40mm



Description	Contact	Colour	Reference	Price
Turn to release	NC	Red	XB7NS8442	9.1
	NO+NC	Red	XB7NS8445	10.1
Turn to release with key	NC	Red	XB7NS9444	15.7
	NO+NC	Red	XB7NS9445	15.7

Control Stations

Economic Empty Enclosures

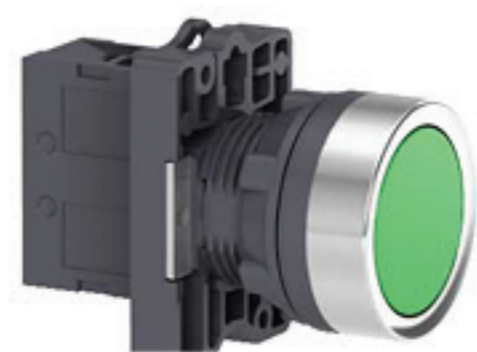


Number of Cut-Outs	Reference	Price
1	XALE1	6.2
2	XALE2	6.8
3	XALE3	7.9

* All Prices are in EUR and not including VAT

Harmony Easy XA2 , Dia. 22mm, Plastic modular with metallic look ring

Pushbuttons Flush IP65



Description	Contact	Colour	Reference	Price
Spring return سوستة	NO	Green	XA2EA31	3.1
	NC	Red	XA2EA42	3.1
	NO	**	XA2EA**1	3.1
Latching ثابت	NO	Green	XA2EH031	4.8
	NC	Red	XA2EH042	4.9
	NO	**	XA2EH0/**1	4.8

Note :

** Stands for:

Colour **	**
White	1
Black	2
Yellow	5
Blue	6

Illuminated flush pushbuttons, with Integral LED - IP54



Supply Voltage	Contact	Colour	Reference	Price
24VDC/VAC	NO	Green	XA2EW33B1	6
	NC	Red	XA2EW34B2	6
	NO	**	XA2EW3**B1	5.9
230~220VAC	NO	Green	XA2EW33M1	7.2
	NC	Red	XA2EW34M2	6.5
	NO	**	XA2EW3**M1	7.2
400~380 VAC	NO	Green	XA2EW33Q1	7.1
	NC	Red	XA2EW34Q2	7.2
	NO	**	XA2EW3**Q1	7.1

Note :

** Stands for

Colour **	**
White	1
Red	4
Yellow	5
Blue	6

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Essential automation & control products

When just enough is just right!

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Marked flush pushbuttons



Contact	Mark	Colour	Reference	Price
NO	'I'	Green	XA2EA3311	3.1
	'^'	Black	XA2EA3351	3.1
	'^'	White	XA2EA3341	3.1
NC	'O'	Red	XA2EA4322	3.1
	'STOP'	Red	XA2EA4342	3.1

Mushroom head pushbutton, spring return - IP65



Description	Contact	Colour	Reference	Price
Head Dia.40mm	NO	Black	XA2EC21	3.4
	NO	Green	XA2EC31	3.4
	NO	Yellow	XA2EC51	3.4
	NC	Red	XA2EC42	3.5
Head Dia.60mm	NO	Black	XA2ER21	34.7

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Pilot Lights (Dia.22mm) IP40 with integrated LED



Supply Voltage	Colour	Reference	Price
24VDC/VAC	Green	XA2EVB3LC	2.2
	Red	XA2EVB4LC	2.1
	**	XA2EVB**LC	2.2
110 VAC	Green	XA2EVF3LC	2.6
	Red	XA2EVF4LC	2.4
	**	XA2EVF**LC	2.6
110 VDC	Green	XA2EVFD3LC	2.3
	Red	XA2EVFD4LC	2.2
	**	XA2EVFD**LC	2.3
220 VDC	Green	XA2EVMD3LC	2.3
	Red	XA2EVMD4LC	2.2
	**	XA2EVMD**LC	2.3
220~230VAC	Green	XA2EVM3LC	2.4
	Red	XA2EVM4LC	2.2
	**	XA2EVM**LC	2.3
380~400 VAC	Green	XA2EVQ3LC	2.5
	Red	XA2EVQ4LC	2.3
	**	XA2EVQ**LC	2.5

Note :

** Stands for:

Colour **	**
White	1
Yellow	5
Blue	6

* All Prices are in EUR and not including VAT



Selector Switches (Dia.22mm) IP54

Selector switches



Position	Description	Reference	Price
2 Position	NO/standard Handle	XA2ED21	3.5
	NO+NO/Stand.Handle	XA2ED25	4.5
	NO+NO/Stand.Handle, Spring return	XA2ED41	3.6
3 Position	NO+NO/Stand.Handle	XA2ED33	4.6
	NO+NO/Stand.Handle, Spring return	XA2ED53	4.5

Key selector switches



Position	Description	Reference	Price
2 Position	NO/standard Handle	XA2EG21	5.5
	NO+NO/Stand.Handle	XA2EG43	6.4
	NO+NO/Stand.Handle, Spring return	XA2EG63	6.5
3 Position	NO+NO/Stand.Handle	XA2EG33	6.5
	NO+NO/Stand.Handle, Spring return	XA2EG03	6.5
	NO+NO/Stand.Handle, Spring return	XA2EG73	6.5

Emergency switch Pushbutton (Dia.22mm) IP54

Mushroom head Emergency Stop pushbuttons



Description	Contact	Colour	Reference	Price
Push-Pull(Dia.40mm)	NC	Red	XA2ET42	8.5
Turn to release(Dia.30mm)	NC	Red	XA2ES442	4.2
Turn to release(Dia.40mm)	NC	Red	XA2ES542	4.3
Turn to release(Dia.60mm)	NC	Red	XA2ES642	4.6
Turn to release(Dia.30mm)	NC	Black	XA2ES422	4.2

User Sub-Assemblies

Accessories



Item	Description	Reference	Price
Bezel Tool	Tightening head fixing nut	ZB5AZ905	12.2
Anti-rotation plate	Prevents head from rotation	ZB5AZ902	38.4

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Additional/Replacement contact block



Description	Contact	Reference	Price
For all XA2 Pushbuttons & Switches :	NO	ZA2EE101	1.2
	NC	ZA2EE102	1.2

Harmony XVG , Dia. 60mm, Monolithic Plastic LED Tower Lights, 24VDC

Pre-assembled, Pre-cabled Plastic monolithic LED Tower Lights, Dia. 60mm, 24 VDC

Tower Light with base Mounting



Buzzer	Description	Reference	Price
Without Buzzer	2 Cells Tower Light, 24VDC, IP53	XVGB2W	47.7
	3 Cells Tower Light, 24VDC, IP53	XVGB3W	62.7
	4 Cels Tower Light, 24VDC, IP53	XVGB4W	79
With Buzzer	2 Cells Tower Light, 24VDC, IP42	XVGB2SW	72.3
	3 Cells Tower Light, 24VDC, IP42	XVGB3SW	87.3
	4 Cels Tower Light, 24VDC, IP42	XVGB4SW	103.6

Tower Light with aliminuim tube mounting & fixing Plate



Buzzer	Description	Reference	Price
Without Buzzer	2 Cells Tower Light, 24VDC, IP53	XVGB2H	50.4
	3 Cells Tower Light, 24VDC, IP53	XVGB3H	65.4
	4 Cels Tower Light, 24VDC, IP53	XVGB4H	81.8
With Buzzer	2 Cells Tower Light, 24VDC, IP42	XVGB2SH	73.6
	3 Cells Tower Light, 24VDC, IP42	XVGB3SH	88.6
	4 Cels Tower Light, 24VDC, IP42	XVGB4SH	106.3

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Installation made easy with our wireless pushbutton

Harmony XB5R - the art of simplicity



%20-
installation costs
compared to a
hard-wired solution

- **Simplification of machine cabling**
using the wireless pushbutton
- **Permanent availability**
using the batteryless pushbutton
- **Robustness tried and tested**
in industrial environments



Harmony eXLhoist

When your remote is safer and more efficient — so are your workers

The hardest working wireless remote control for hoisting now has new software for improved operator efficiency and safety. With a multi-base control function, easier configuration, one-handed control, and a 30-hour, quick-recharge battery, the Harmony eXLhoist gets the job done.



Harmony XAC pendant station



Harmony XKB/D/M joystick controller



Harmony XB4/5 pushbuttons for harsh environments

Discover the complete Harmony range for hoisting control

Multi-base control function for simultaneous control of two base stations

Easy, simple pairing procedure

New software selection procedure to configure architecture (master/slave)
Intuitive button positioning with SIL1 PL c protection against unintended use

One-handed operation

SIL3 PL e wireless emergency stop



* For Prices please contact Schneider Electric +9611321645

Pendant Control Stations IP65

TYPE A for Control Circuits

For control of single speed motors (for control circuits)



Description	Contact block per Direction	Incorporated contact block	Reference	Price
Two Directions	1 N/O	ZB-2BE101	XACA271	41.7
Two Directions + Emergency	1 N/O	ZB-2BE101	XACA2713	51.5
	1 N/C	ZB-2BE102		
Four Directions	1 N/O	ZB-2BE101	XACA471	67.4
Four Directions + Emergency	1 N/O	ZB-2BE101	XACA4713	84.5
	1 N/C	wZB-2BE102		
Six Directions	1 N/O	ZB-2BE101	XACA671	88.3
Six Directions + Emergency	1 N/O	ZB-2BE101	XACA6713	110.9
	1 N/C	ZB-2BE102		
Six Directions + Start/Stop Push Button	7 N/O +	ZB-2BE101	XACA871	108.1
	1N/O 1-N/C	ZB-2BE102		

For control of 2 speed motors (for control circuits)



Description	Contact block per Direction	Incorporated contact block	Reference	Price
Two Directions	(N/C +N/O) +N/O	XEN-G1191	XACA291	88.4
Two Directions + Emergency	(N/C +N/O) +N/O	XEN-G1191	XACA2913	85.9
	1 N/C	ZB-2BE102		
Four Directions	(N/C +N/O) +N/O	XEN-G1191	XACA491	157.1
Four Directions + Emergency	(N/C +N/O) +N/O	XEN-G1191	XACA4913	140.8
	1 N/C	ZB-2BE102		
Six Directions + Emergency	6 N/O	XEN-G1191	XACA6913	178
	1N/C	ZB-2BE102		

* All Prices are in EUR and not including VAT

Separate components

Replacement contact blocks



Description	Application	Function	Reference	Price
Spring return slow break	Single Speed	N/C	ZB2BE101	3.6
	Single Speed	N/O	ZB2BE102	3.6
	Two Speeds	N/C+N/C+N/O	XENG1191	15.8
	Emergency Stop	N/C+N/C+N/C	XENT1192	55.4
Double block 2P	Single Speed	N/O + N/O	XESD1191	85.9
Double block 3P	Single Speed	N/O + N/O+N/O	XESD2201	83.9

Operating heads for front mounting



Colour	Reference	Price
White	XACA9411	2.8
Black	XACA9412	2.8

Cam Switches



Function	No. Of Poles	Current(A)	Reference	Price
ON/OFFcam switches				
0-1	2	12	K1B002ALH	15.7
0-1	3	12	K1C003HLH	17.2
Changeover cam switches with "O" position				
2 - 0 - 1	1	12	K1B001ULH	18.3
2 - 0 - 1	2	12	K1D002ULH	19.7

* All Prices are in EUR and not including VAT

Cam Switches



Function	No. Of Poles	Current (amp)	Reference	Price
Stepping switches (3 step), with "O" position				
0-1-2-3	1	12	K1C003QLH	18
0-1-2-3	1	20	K2C003QLH	19.9
0-1-2-3	2	12	K1F013QLH	23.7
Stepping switches (4 step), with "O" position				
0-1-2-3-4(4step+O)	1	12	K1D004QLH	19.2
0-1-2-3-4(4step+O)	1	20	K2D004QLH	21
Voltmeter switch with "O" position, for Ph/Ph & Ph/N				
0, L1-N, L2-N, L3-N, L1-L2, L2-L3, L3-L1	1	12	K1F027MLH	24.9

Joy Stick Controller IP65



Description	Operation	Spring return to Zero position	Reference	Price
Compact, Chromium Plated Bezel , 2 - DIRECTION				
2 direction 85*85 mm fixing centres	1 Notch 1 NO contact per direction	Without	XD4PA12	48.2
		With	XD4PA22	48.2
Compact, Chromium Plated Bezel , 4 - DIRECTION				
4 direction 30*85 mm fixing centres	1 Notch 1 NO contact per direction	Without	XD4PA14	62
		With	XD4PA24	62

Foot Switches



Description	Contact	Reference	Price
Metal Foot Switches IP66			
Metal, without protective guard	1 Step/1C/O	XPEM110	79.4
Double insulated Foot Switches IP40			
Plastic, without protective guard	1 Step/1C/O	XPEA110	48.6

Emergency Rope Switch

Emergency stop, latching without indicator light



Contact	Reset	Cable Length	Cable anchor point	Reference	Price
NC+NO Slow break	By booted PB	<15 m	RH or LH side	XY2CH13250	130
NC+NO Slow Break	By booted PB	<50 m	RH side	XY2CE1A250	253.6
NC+NO Slow Break	By booted PB	<50 m	LH side	XY2CE2A250	253.6
NC+NO Slow Break	Inside the enclosure	<2x200 m	RH or LH side	XY2CB30	1846.5

* All Prices are in EUR and not including VAT

Notes

Zelio Time

Zelio RE17/RE22



Mounting

- Modular and Din rail mount



Time Range

- Timing ranges 0.05s to 300h



Output

- 1C/O 8A relay output
- 2C/O 8A relay output
- 0.7A Solid state relay output



Functions

- Multifunction
- Dual function
- Single function

Zelio RE48



Mounting

- Panel mount or Plug-in



Time Range

- Timing range 1.2s to 300h



Output

- 2C/O 5A relay output



Functions

- Multifunction
- Dual function
- Single function

Zelio REXL Minature



Mounting

- Plug-in



Time Range

- Timing ranges 0.1s to 100h



Output

- 2C/O 5A relay output
- 4C/O 5A relay output



Functions

- Single function

Zelio Timers RE17 , width 17.5 mm with solid state or relay output



Supply Voltage	Time Range	Time Functions	Output	Reference	Price
Single Function					
24~240V AC/DC	0.1S....100hr	'A'..on Delay	Solid state	RE17LAMW	31.1
24~240V AC	0.1S....100hr	'H'..Internal Relay	Solid state	RE17LHBM	28.5
24~240V AC	0.1S....100hr	'C'..Off Delay	Solid state	RE17LCBM	28.5
Dual Function					
24~240V AC/DC	0.1S....100hr	'L,Li'.. Asymmetrical Relay	Solid state	RE17LLBM	30.5
Multi Function					
24~240V AC	0.1S....100hr	A, At, B, C, H, Ht, D, Di, Ac, Bw	Solid state	RE17LLBM	38.4

RE 17 Electronic timing relays with relay output 1C/O 8A



Supply Voltage	Time Range	Time Functions	Output	Reference	Price
Single Function					
24V DC/24~240V AC	0.1S....100hr	'B'.. Interval Relay with Control	1 C/O	RE17RBM	24.5
24V DC/24~240V AC	0.1S....100hr	'C'.. Off Delay	1 C/O	RE17RCMU	24.5
Dual Function					
24V DC/24~240V AC	0.1S....100hr	'A,At'.. On Delay with pause/summation	1 C/O	RE17RAMU	26.5
24V DC/24~240V AC	0.1S....100hr	'H, Ht'.. Interval Relay with pause/summation	1 C/O	RE17RHMU	26.5
24V DC/24~240V AC	0.1S....100hr	'L,Li' Asymmetrical Relay	1 C/O	RE17RLMU	26.5
12V AC/DC	0.1S....100hr	'L,Li' Asymmetrical Relay	1 C/O	RE17RLJU	21.9
Multi Function					
12V AC/DC	0.1S....100hr	A, At, B, C, H, Ht, D, Di, Ac, Bw	1 C/O	RE17RMJU	29.8
24V DC/24~240V AC	0.1S....100hr	A, At, B, C, H, Ht, D, Di, Ac, Bw	1 C/O	RE17RMMU	34.5
12~24V AC/DC	0.1S....100hr	A, At, B, C, H, Ht, D, Di, Ac, Bw	1 C/O	RE17RMMW	36.4
24V DC/24~240V AC	0.1S....100hr	Ad, Ah, N,O, P, Pt, Ti,Tt, W	1 C/O	RE17RMXMU	33.1
24V DC/24~240V AC	0.1S....100hr	Ad, Ah, N, O, P, Pt, Ti, Tt, W	1 C/O	RE17RMEMU	31.1

* All Prices are in EUR and not including VAT

Zelio Timers RE22 , width 22.5 mm with relay output 8A 1C/O or 2C/O with diagnostic button, LED dial



Supply Voltage	Time Range	Time Functions	Output	Reference	Price
Single Function					
24~240V AC/DC	0.1S.....300hr	'Ac'.. On/Off Delay with Control	2 C/O	RE22R2ACMR	46.4
24~240V AC/DC	0.1S.....300hr	'Qg'.. Star/Delta with same common	2 C/O	RE22R2QGMR	46.4
24~240V AC/DC	0.1S.....300hr	'Qt'.. Star/Delta with split common	2 C/O	RE22R2QTMR	46.4
24~240V AC/DC	0.1S.....10min	'K'.. Delay on de-energization without auxiliary	1 C/O	RE22R1KMR	46.4
24V DC/24~240V AC	0.05S.....300S	'Qc'.. Star/Delta timing	1 C/O	RE22R1QCMU	29.8
380~415V AC	0.3S.....30S	'Qe'.. Star/Delta timing	2 C/O	RE22R2QEMT	51
24~240V AC/DC	0.3.....30S	'Qe'.. Star/Delta timing	2 C/O	RE22R2QEMR	36
Dual Function					
24~240V AC/DC	0.1S.....300hr	'A,Aw'.. On Delay with retrigger/restart control	1 C/O	RE22R1AMR	36.4
24~240V AC/DC	0.1S.....300hr	'C,Ct'.. Off Delay with control & pause / summation	1 C/O	RE22R1CMR	36.4
24~240V AC/DC	0.1S.....300hr	'Ac, Act'.. Off Delay with control & pause / summation	1 C/O	RE22R1ACMR	36.4
24~240V AC/DC	0.1S.....300hr	'Ak, Akt'.. Asymm. On/Off Delay with control & pause/summation	1 C/O	RE22R1AKMR	36.4
24~240V AC/DC	0.1S.....300hr	'D,Dw'.. Symmetrical flashing with retrigger/restart	1 C/O	RE22R1DMR	36.4
24~240V AC/DC	0.1S.....300hr	'H,Hw'.. Interval Relay with Retrigger/Restart	1 C/O	RE22R1HMR	36.4
24~240V AC/DC	0.1S.....300hr	'V,Wt'.. Interval Relay with Control & Pause / Summation	2 C/O	RE22R2MWMR	56.3
24~240V AC/DC	0.05S.....300S	'K,He'.. Delay/pulse on de-energization without auxiliary	1 C/O	RE22R1MKMR	36.4
Multi Function					
24~240V AC/DC	0.1S.....300hr	A, At, Aw	1 C/O	RE22R1MAMR	46.4
24~240V AC/DC	0.1S.....300hr	A, At, Aw, Ac, Act, C, Ct, D, Dt, Dw, Di, Dit, Dw, H, Ht, Hw, V, Wt	1 C/O	RE22R1MYMR	46.4
24~240V AC/DC	0.1S.....300hr	A, At, Aw, C, Ct, D, Dt, Dw, Di, Dit, Dw, H, Ht, Hw, Qg, Qgt, Qt, Qtt, W, Wt	2 C/O	RE22R2MYMR	56.3
24~240V AC/DC	0.1S.....300hr	L, Li, Lt, Lit	1 C/O	RE22R1MLMR	46.4

Zelio NFC Timer

Supply Voltage	Time Range	Time Functions	Output	Reference
24~240V AC/DC	0.1 s..999 h	A,Qt,Lit,At,W,Ak,Qtt,Ad,Di,Ac,Pt,Dt,P,Ht,Bw,L,C,H,Dit,Tt,B,D,O,Li,Ti,Lt,Ah,N	2 C/O	RENF22R2MMW**

** For Prices please contact Schneider Electric +9611321645



* All Prices are in EUR and not including VAT

Timers Functions		
Main timing functions	Complementary functions	Definitions
A		Power on-delay relay
	AC	On-delay and off-delay relay with control signal
	Act	On-delay and off-delay relay with control signal and pause/summation control signal
	Ad	Pulse delayed relay with control signal
	Ah	Pulse delayed relay (single cycle) with control signal
	Ak	Asymmetrical on-delay and off-delay relay with control signal
	Akt	Asymmetrical on-delay and off-delay relay with control signal and pause/ summation control signal
	At	Power on-delay relay with pause/summation control signal
	Aw	Power on-delay relay with retrigger/restart control signal
B		Interval relay with control signal
	Bw	Double interval relay with control signal
C		Off-delay relay with control signal
	Ct	Off-delay relay with control signal and pause/summation control signal
D		Symmetrical flashing relay (starting pulse-off)
	Di	Symmetrical flashing relay (starting pulse-on)
	Dit	Symmetrical flashing relay (starting pulse-on) with pause/summation control signal
	Diw	Symmetrical flashing relay (starting pulse-on) with retrigger/restart control signal
	Dt	Symmetrical flashing relay (starting pulse-off) with pause/summation control signal
	Dw	Symmetrical flashing relay (starting pulse-off) with retrigger/restart control signal
H		Interval relay
	He	Pulse-on de-energization
	Ht	Interval relay with pause/summation control signal
	Hw	Interval relay with retrigger/restart control signal
K		Delay on de-energization (without auxiliary supply)
L		Asymmetrical flashing relay (starting pulse-off)
	Li	Asymmetrical flashing relay (starting pulse-on)
	Lit	Asymmetrical flashing relay (starting pulse-on) with pause/summation control signal
	Lt	Asymmetrical flashing relay with pause/summation control signal
N		Safe guard relay
O		Delayed safe guard relay
P		Pulse delayed relay with fixed pulse length

Main timing functions	Complementary functions	Definitions
	Pt	Pulse delayed relay with fixed pulse length, pause/summation control signal and control signal off
Q		Star-delta relay (2 N/O outputs with same common)
	Qc	Star-delta timing (1 C/O output)
	Qe	Star-delta timing (1 N/C + 1 N/O outputs with split common)
	Qg	Star-delta timing (2 C/O outputs with same common)
	Qgt	Star-delta timing (2 C/O outputs with same common) with pause-summation control signal
	Qt	Star-delta timing (2 C/O outputs with split common)
	Qtt	Star-delta timing (2 C/O outputs with split common) with pause-summation control signal
T		Bistable relay with control signal on
	TT	Retriggerable bistable relay with control signal on
W		Interval relay with control signal off
	Wt	Interval relay with control signal off and pause/summation control signal

For More Details Regarding Timers Function (32- 41)

Timing Functions Details

Functions

U: Supply
R: Relay or solid state output
R1/R2: 2 timed outputs
R2 inst.: Second output is instantaneous if the correct position is selected
T: Timing period

X1/X2/Y1: Control contacts
Ta: Adjustable on-delay
Tr: Adjustable off-delay

Function diagram

 Power-on
 Power-off
 Output closed/Control input on
 Output open/Control input off

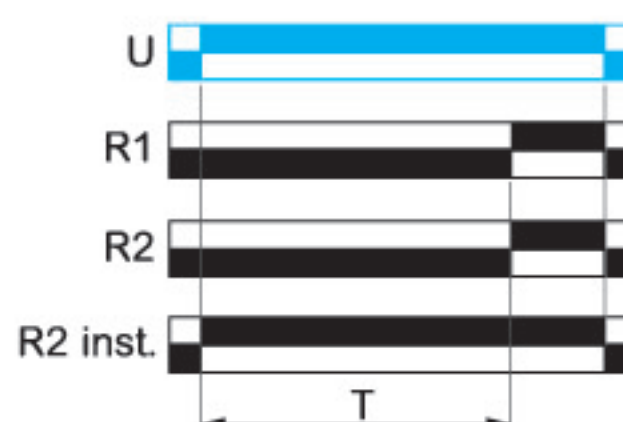
Function A: Power on-delay relay

1 output

Function A



2 outputs



The timing period T begins on power-on.
 At the end of this timing period, the output(s) R close(s).
 The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

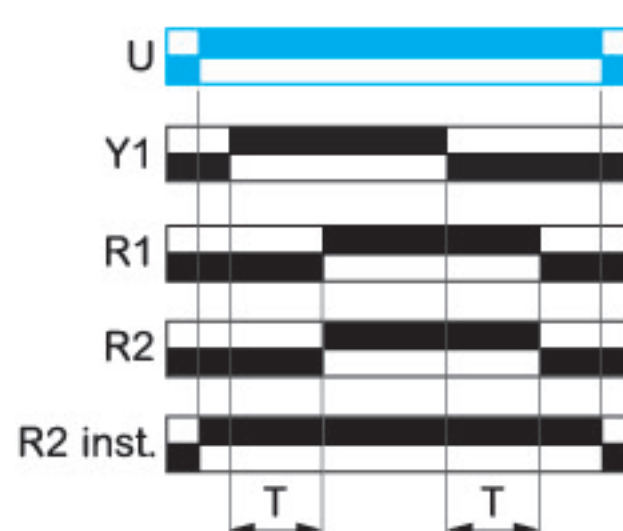
Function Ac: On-delay and off-delay relay with control signal

1 output

Function Ac



2 outputs

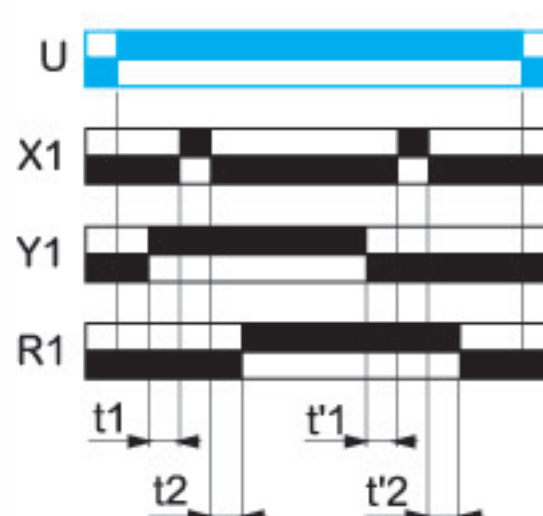


After power-on, and the closure of Y1 the timing period T starts.
 At the end of this timing period, the output(s) R close(s).
 When Y1 opens, the timing period T starts.
 At the end of this timing period T , the output(s) R open(s).
 The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Act: On-delay and off-delay relay with control signal and pause/summation control signal

1 output

Function Act



$$T = t_1 + t_2 + \dots$$

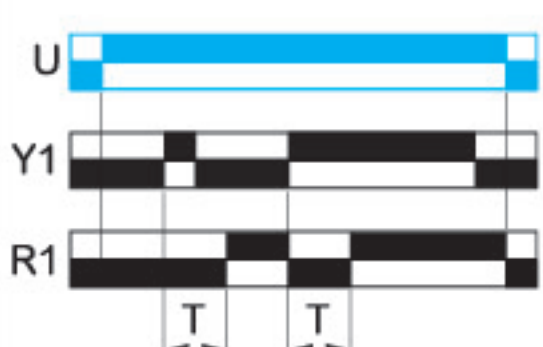
$$T = t'_1 + t'_2 + \dots$$

After power-on and the closure of Y1 the timing period T starts and it can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T , the output(s) R close(s).
 When Y1 opens, the timing T starts and it can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T , the output(s) R open(s).

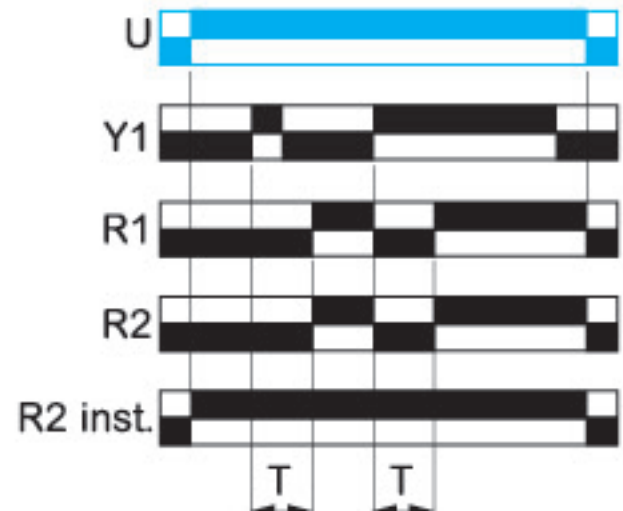
Function Ad: Pulse delayed relay with control signal

1 output

Function Ad



2 outputs

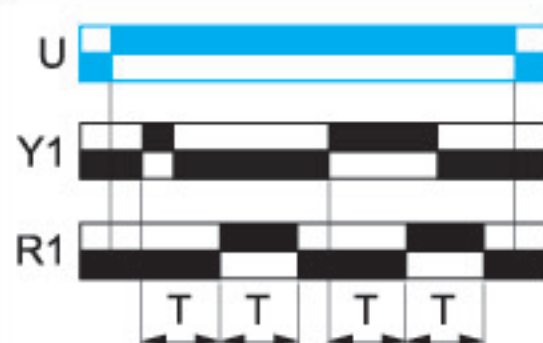


After power-on, pulsing or maintaining Y1 starts the timing T .
 At the end of this timing period T , the output(s) R close(s).
 R remains closed until the next pulsing or maintaining Y1 to start the next cycle.
 The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

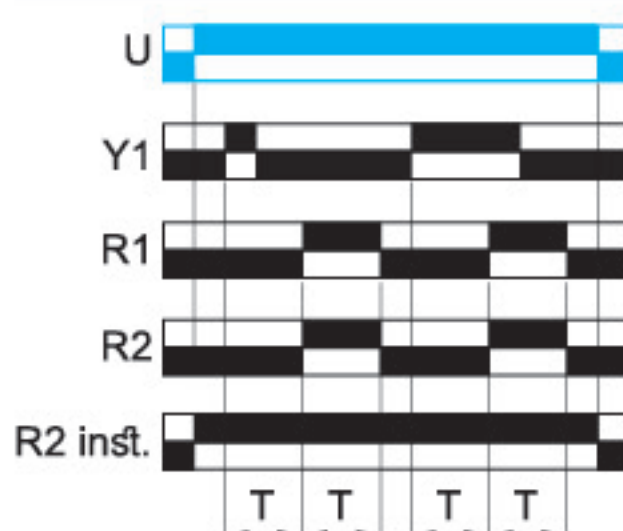
Function Ah: Pulse delayed relay (single cycle) with control signal

1 output

Function Ah



2 outputs



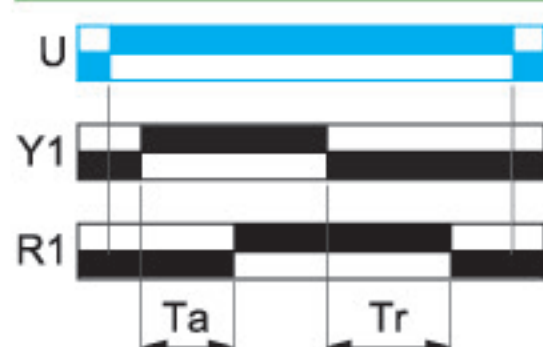
After power-on, pulsing or maintaining Y1 starts the timing T . A single cycle then starts with 2 timing periods T of equal duration (start with output(s) open(s)).
 The output(s) R closes(s) state at the end of the first timing period T and open(s) at the end of the second timing period T .
 Y1 should be reset in order to re-start the single flashing cycle.
 The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Timing Functions Details

Function Ak: Asymmetrical on-delay and off-delay relay with control signal

1 output

Function Ak



After power-on and the closure of Y1, timing starts for a period T_a .

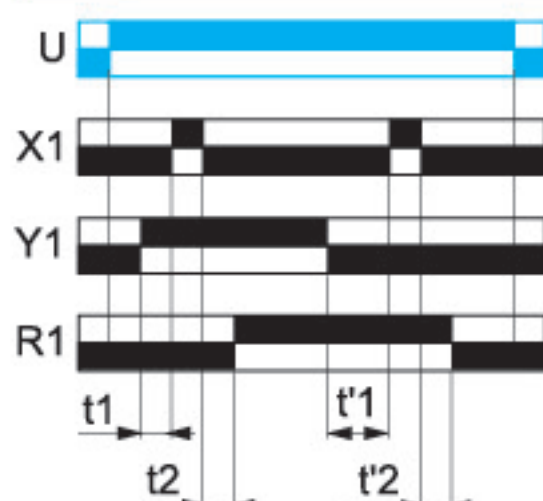
At the end of this timing period T_a , the output R closes.

A second timing period T_r starts when Y1 re-opens. At the end of this timing period T_r , the output R open(s).

Function Akt: Asymmetrical on-delay and off-delay relay with control signal and pause/summation control signal

1 output

Function Akt



$$T_a = t_1 + t_2 + \dots$$

$$T_r = t'_1 + t'_2 + \dots$$

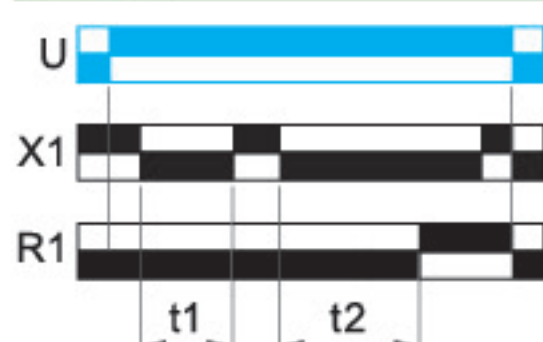
After power-on and the closure of Y1, timing starts for a period T_a and can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T_a , the output R closes.

A second timing period T_r starts when Y1 re-opens and can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T_r , the output R open(s).

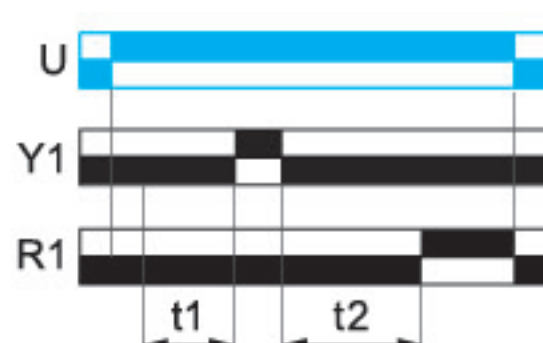
Function At: Power on-delay relay with pause/summation control signal

1 output

Function At

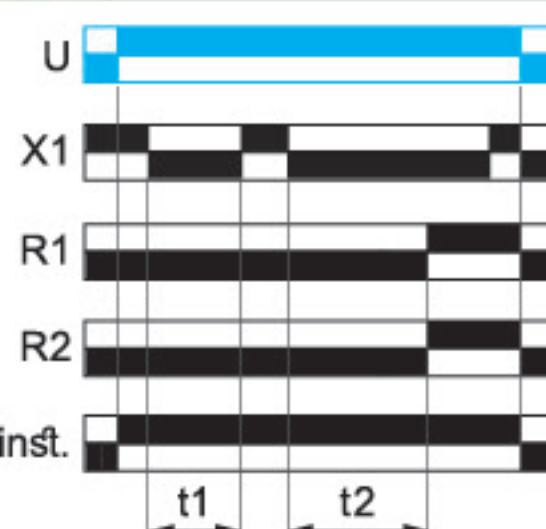


$$T = t_1 + t_2 + \dots$$

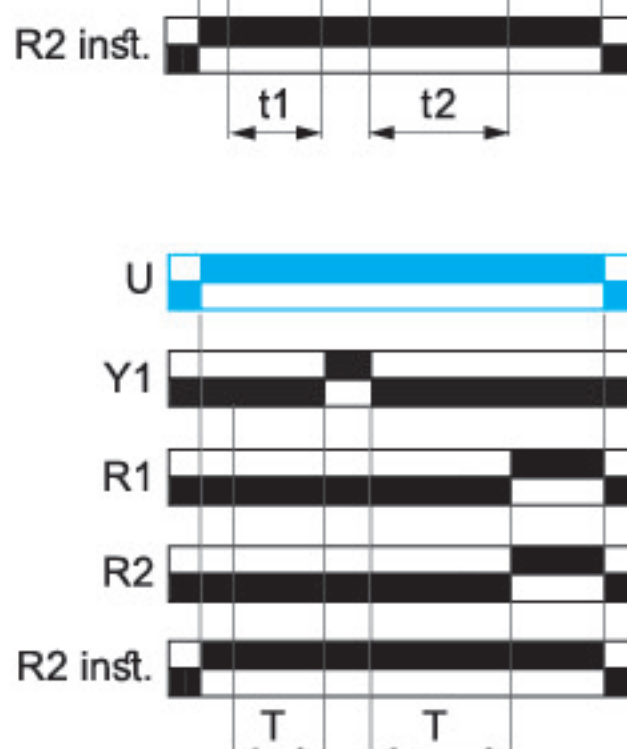


$$T = t_1 + t_2 + \dots$$

2 outputs



$$T = t_1 + t_2 + \dots$$



$$T = t_1 + t_2 + \dots$$

After power-on, the timing period T starts. Timing can be interrupted/paused each time X1 closes.

Note: Except for RE17p, RE22R2AMU, RE22R2MMW, RE22R2MMU, and RE22R2MJU, timing can be interrupted/paused each time Y1 closes.

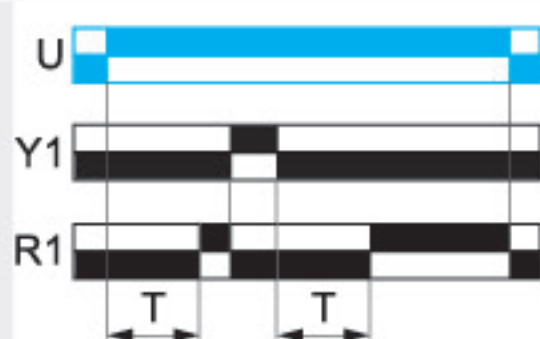
When the cumulative total time elapsed reaches the preset value T , the output(s) R close(s).

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

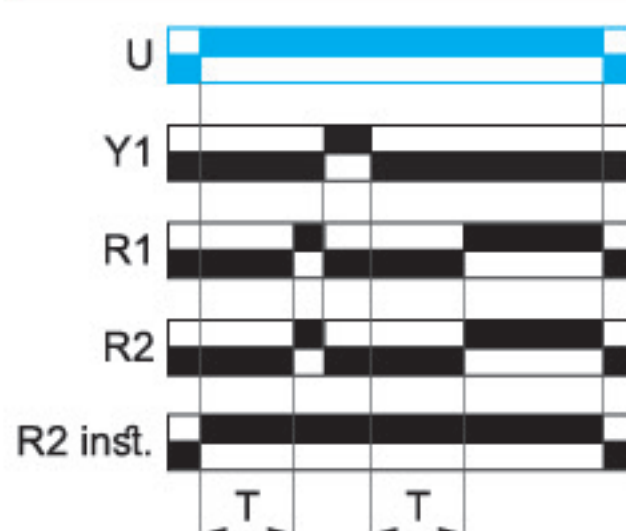
Function Aw: Power on-delay relay with retrigger/restart control signal

1 output

Function Aw



2 outputs



The timing period T starts on power-on. At the end of the timing period T , the output(s) R close(s).

Closing of the Y1 makes the output(s) R open. Opening of Y1 restarts timing period T .

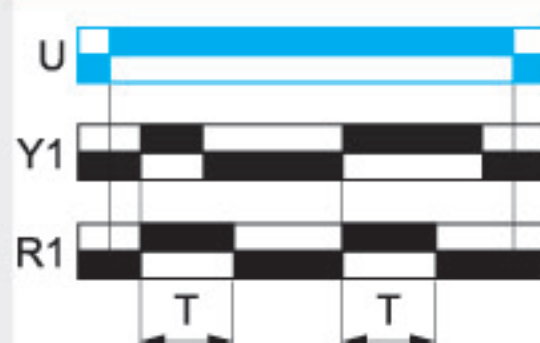
At the end of the timing period T , the output(s) R close(s).

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

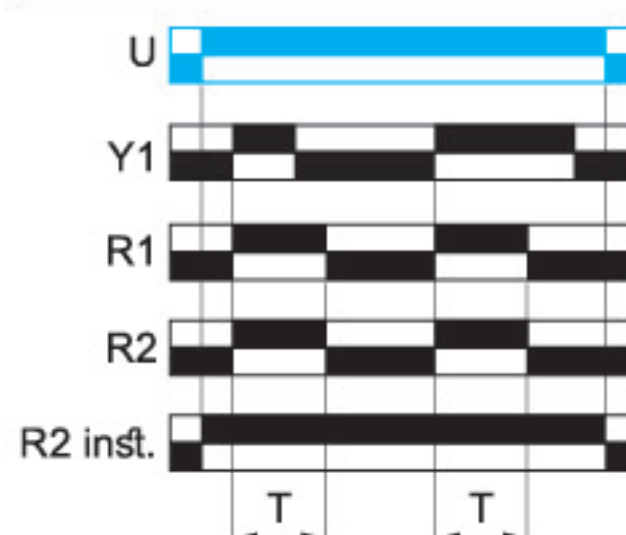
Function B: Single interval relay with control signal

1 output

Function B



2 outputs



After power-on, pulsing or maintaining Y1 starts the timing T .

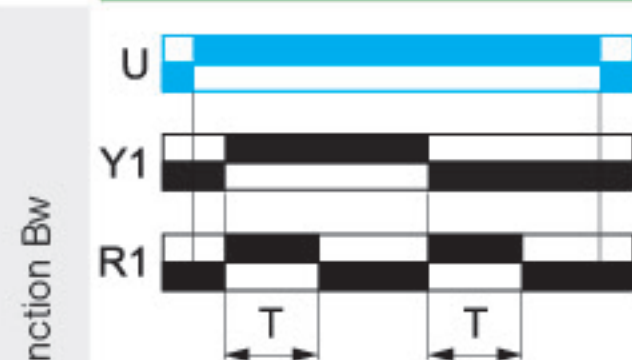
The output(s) R close(s) for the duration of the timing period T and then open(s).

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

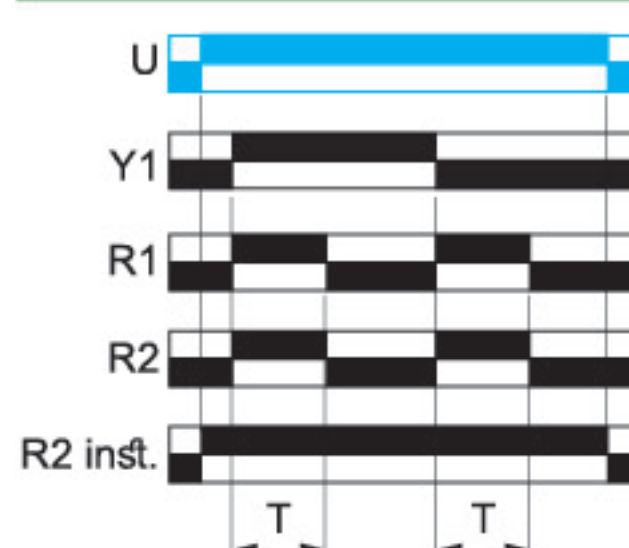
Timing Functions Details

Function Bw: Double interval relay with control signal

1 output



2 outputs

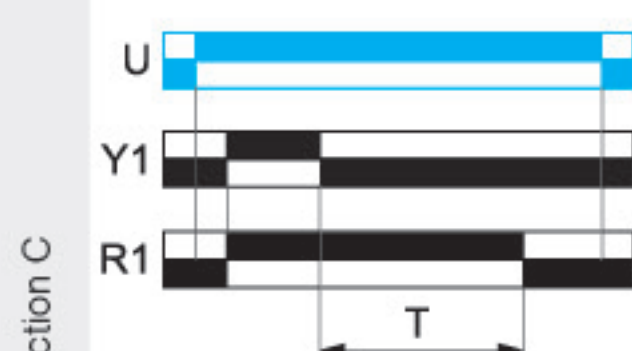


After power-on, transition of Y1 (either from open to closed or vice-versa) will cause the output(s) R to close(s) for the duration of the timing period T and then open(s).

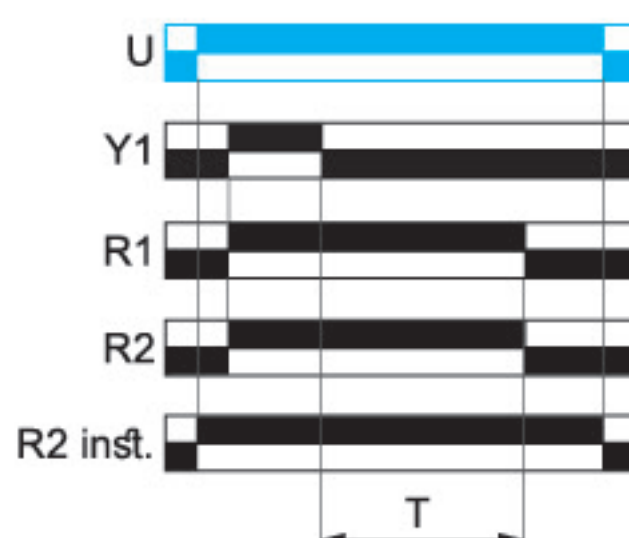
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function C: Off-delay relay with control signal

1 output



2 outputs



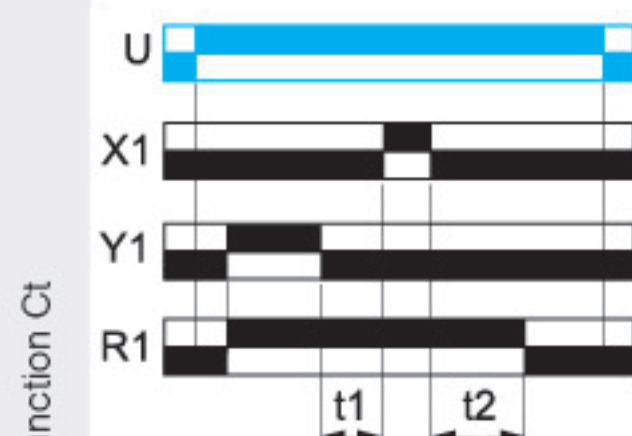
After power-on and closure of the Y1, the output(s) R close(s).

When Y1 re-opens, timing T starts.

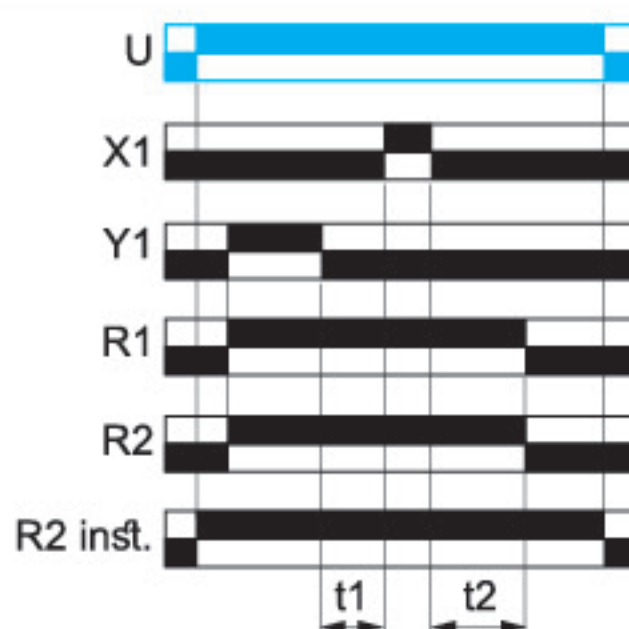
At the end of the timing period, output(s) R open(s).

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Ct : Off-delay relay with control signal and pause/summation control signal



$$T = t_1 + t_2 + \dots$$



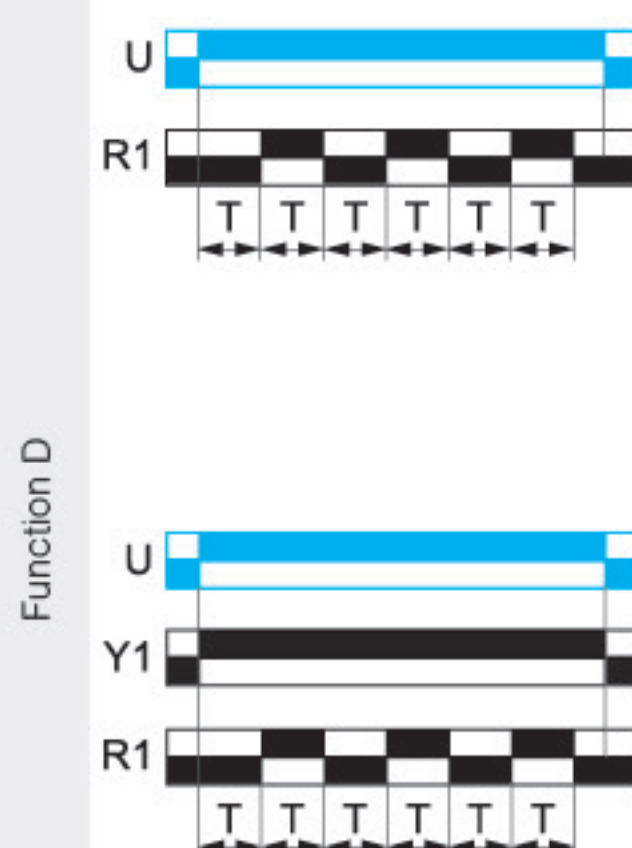
After power-on and the closure of Y1, the output(s) R close(s).

When Y1 re-opens, timing starts and can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s).

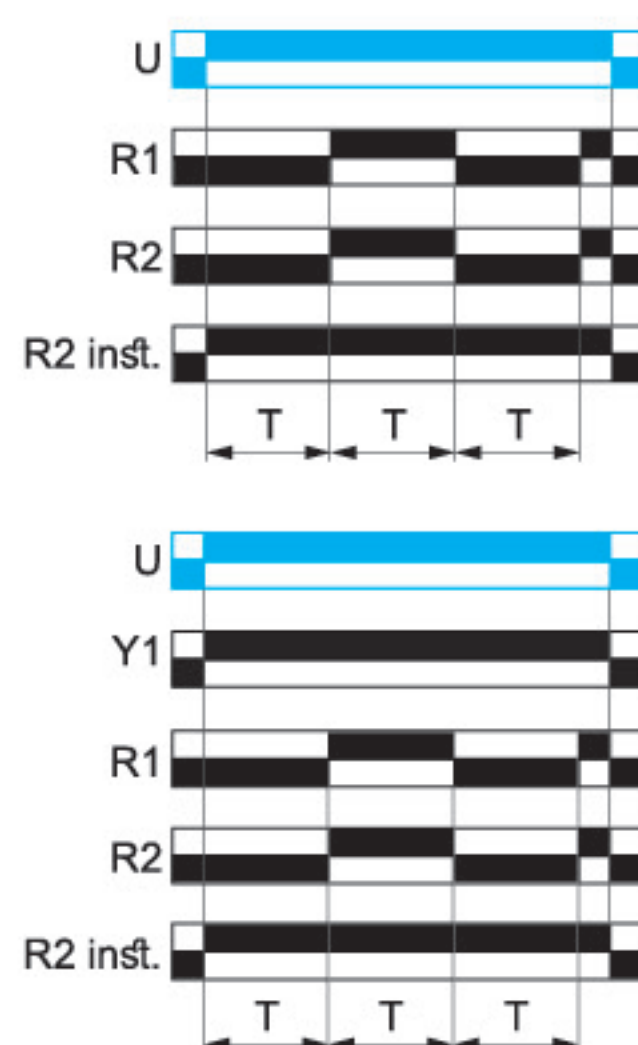
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function D: Symmetrical flashing relay (starting pulse-off)

1 output



2 outputs



Repetitive cycle with 2 timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Note: Function D with Y1 is only for the RE17 range and RE22R2MJU, RE22R2MMU, and RE22R2MMW references.

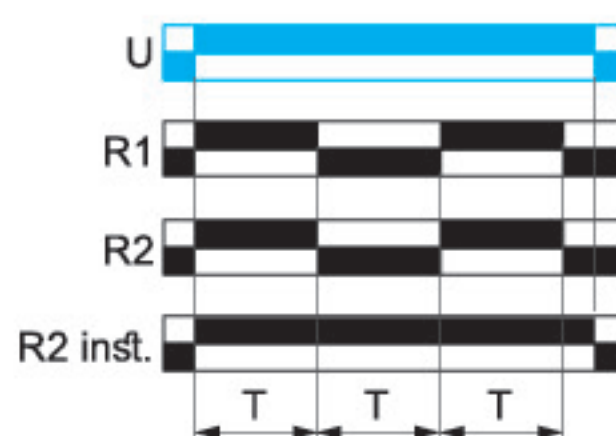
Timing Functions Details

Function Di: Symmetrical flashing relay (starting pulse-on)

1 output



2 outputs

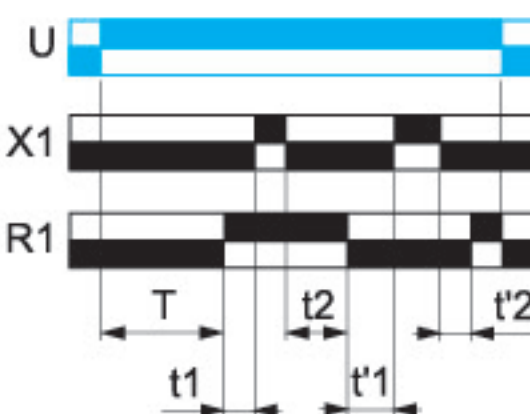


Repetitive cycle with 2 timing periods T of equal duration, with output(s) R changing state at the end of each timing period T .

The second output ($R2$) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Dt : Symmetrical flashing relay (starting pulse-off) with pause/summation control signal

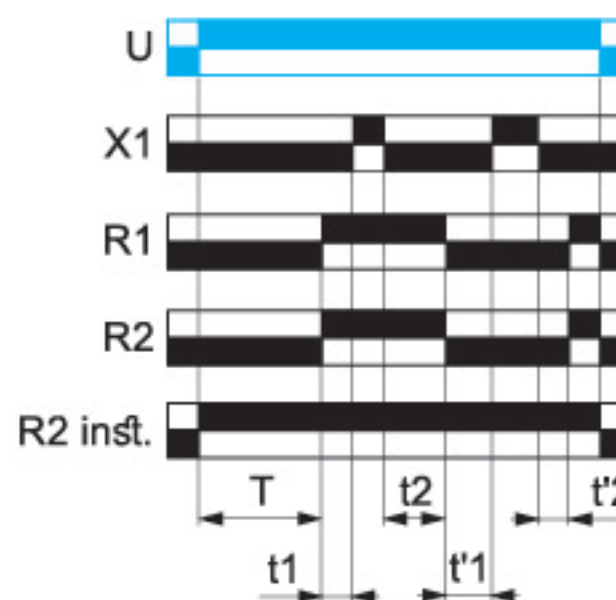
1 output



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

2 outputs



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

After power-on, output(s) R start(s) with open state for timing period T and the timing can be interrupted/paused each time $X1$ closes. When the cumulative total time elapsed reaches the preset value T , the output(s) R close(s).

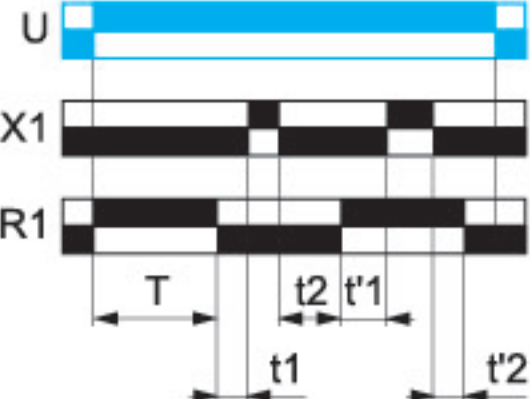
The output(s) R will remain in the closed state for the same timing period T and the timing can be interrupted/paused each time $X1$ closes. When the cumulative total time elapsed reaches the preset value T , the output(s) R open(s).

This cycle is repeated indefinitely until the power supply is removed.

The second output ($R2$) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Ditt : Symmetrical flashing relay (starting pulse-on) with pause/summation control signal

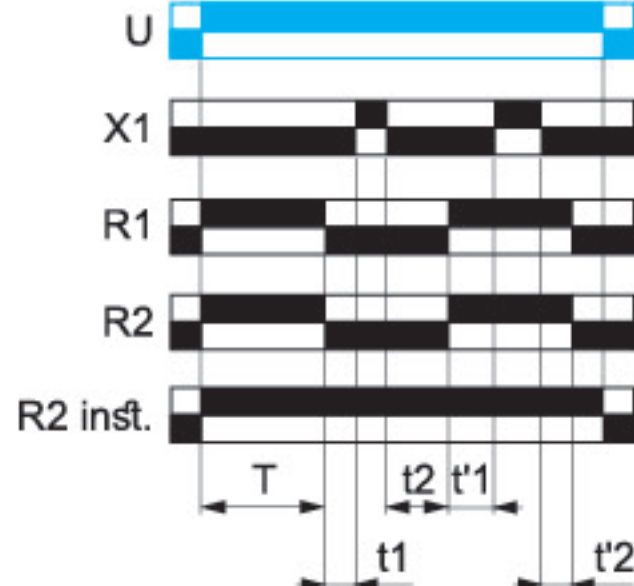
1 output



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

2 outputs



$$T = t_1 + t_2 + \dots$$

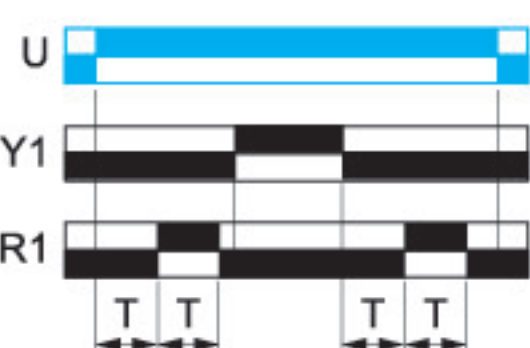
$$T = t'_1 + t'_2 + \dots$$

After power-on, output(s) R close(s) for timing period T which can be interrupted/paused each time $X1$ closes. When the cumulative total time elapsed reaches the preset value T , then the output(s) open(s). The output(s) R will remain open for the same timing period T and the timing can be interrupted/paused each time $X1$ closes. When the cumulative total time elapsed reaches the preset value T , the output(s) R close(s). This cycle is repeated indefinitely until the power supply is removed.

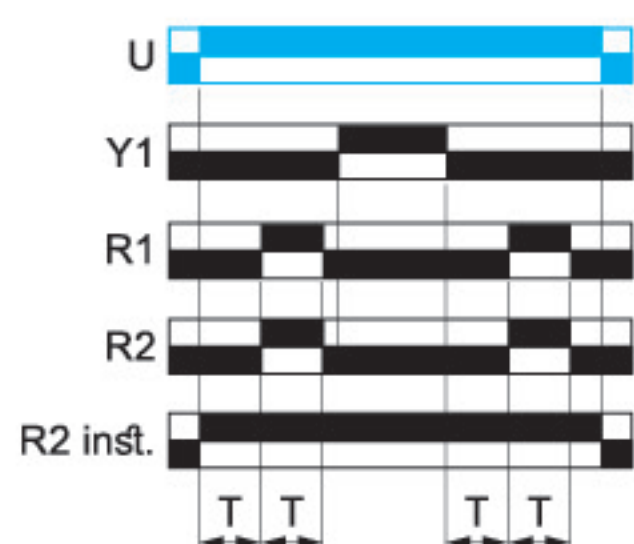
The second output ($R2$) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Dw: Symmetrical flashing relay (starting pulse-off) with retrigger/restart control signal

1 output



2 outputs



After power-on, output(s) R start(s) with open state for timing period T then close(s) for the same timing period T . This cycle is repeated indefinitely until the power supply is removed.

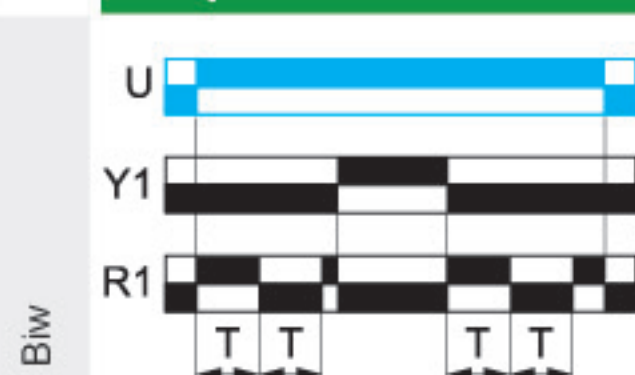
At any state of the output(s) R , when $Y1$ closes and then re-opens, the output(s) R open(s) and restart(s) the same operation as described at the beginning.

The second output ($R2$) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

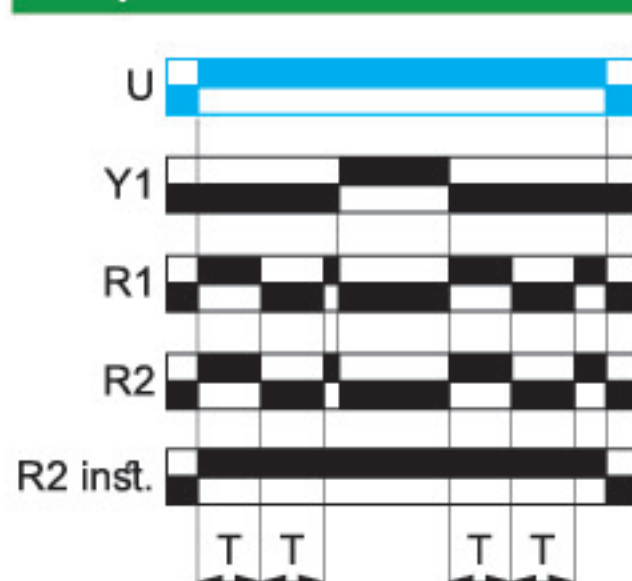
Timing Functions Details

Function Diw: Symmetrical flashing relay (starting pulse-on) with retrigger/restart control signal

1 output



2 outputs



After power-on, output(s) R close(s) for timing period T and open(s) for the same timing period T. This cycle is repeated indefinitely until the power supply is removed. At any state of the output(s) R when Y1 closes and then re-opens, the output(s) R close(s) and restart(s) the same operation as described at the beginning.

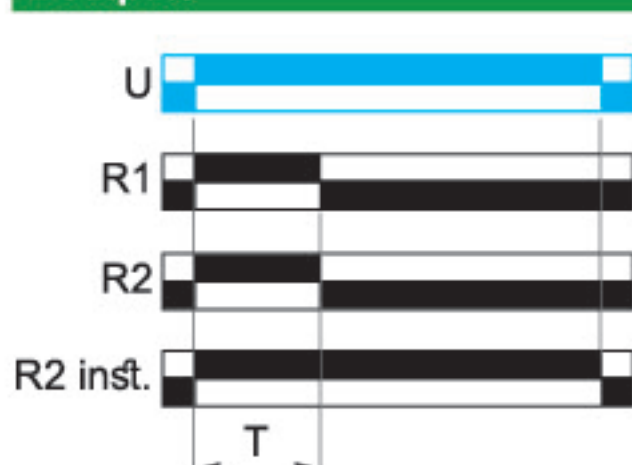
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function H: Interval relay

1 output



2 outputs



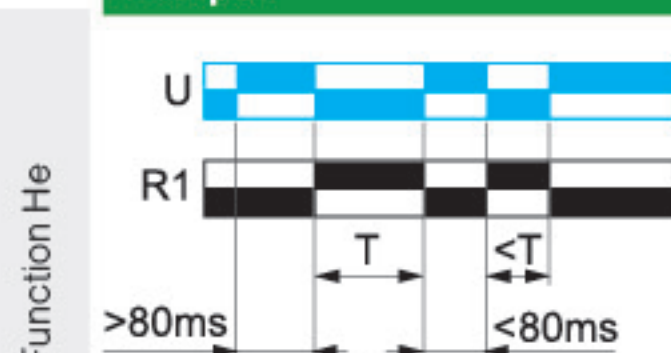
After power-on, timing period T starts and the output(s) R close(s).

At the end of the timing period T, output(s) R open(s).

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function He: Pulse-on de-energization

1 output

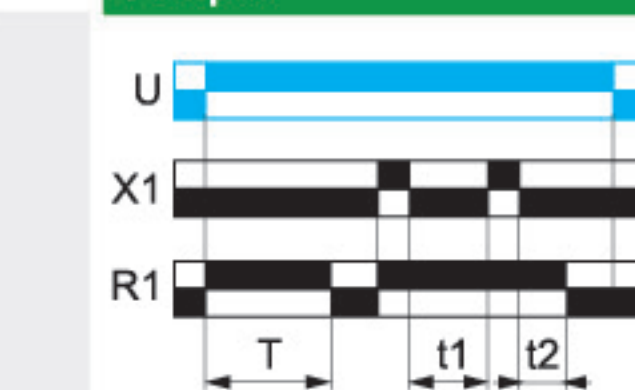


After power-on > 80 ms followed by power-off, the output R closes for the duration of a timing period T and then open(s).

After power-on < 80 ms followed by power-off, the output R closes and opens before the end of the timing period T as it will not be able to sustain this state for the timing period T.

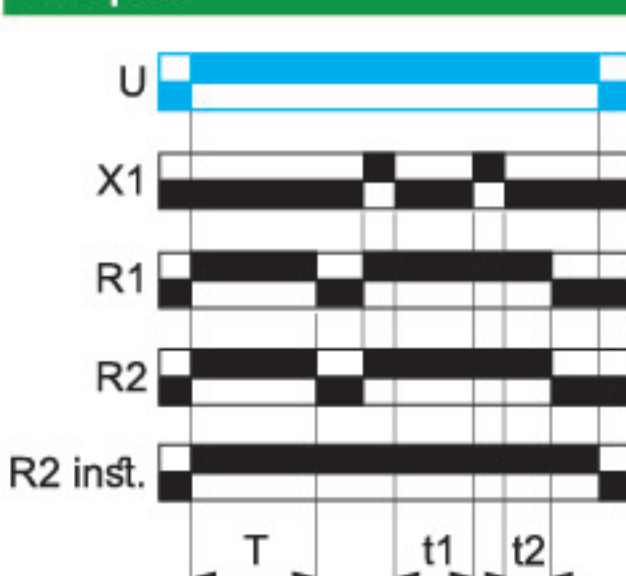
Function Ht: Interval relay with pause/summation control signal

1 output



$$T = t_1 + t_2 + \dots$$

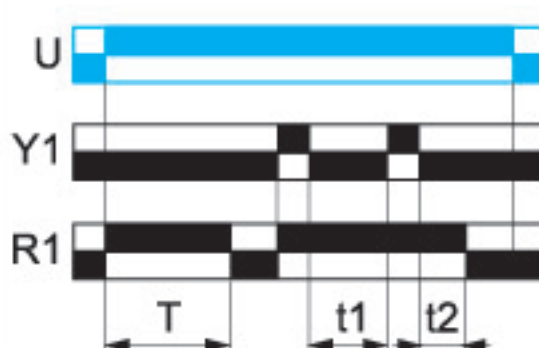
2 outputs



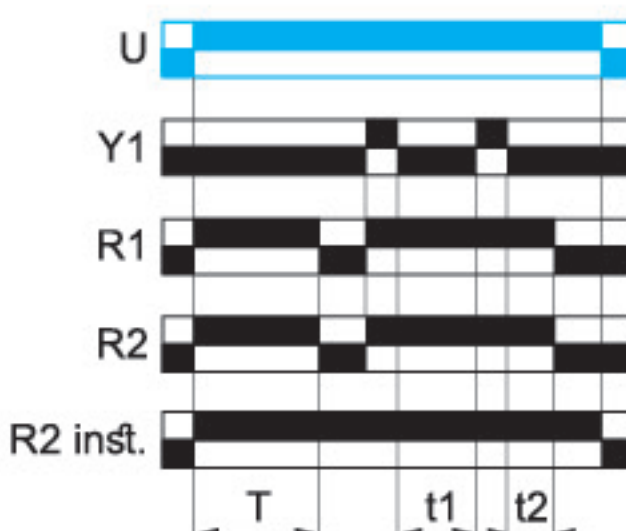
After power-on, output(s) R close(s) and timing period T starts, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s).

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Note: For RE17p, RE22R2MMW, RE22R2MMU, and RE22R2MJU, timing can be interrupted/paused each time Y1 closes.



$$T = t_1 + t_2 + \dots$$



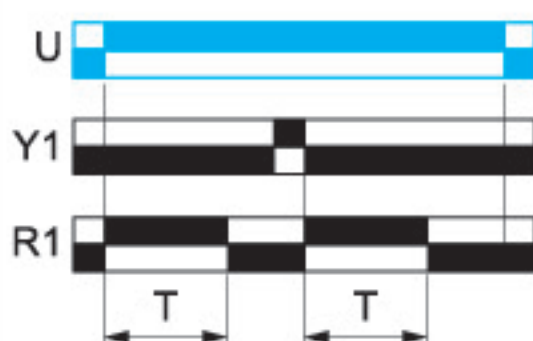
$$T = t_1 + t_2 + \dots$$

Timing Functions Details

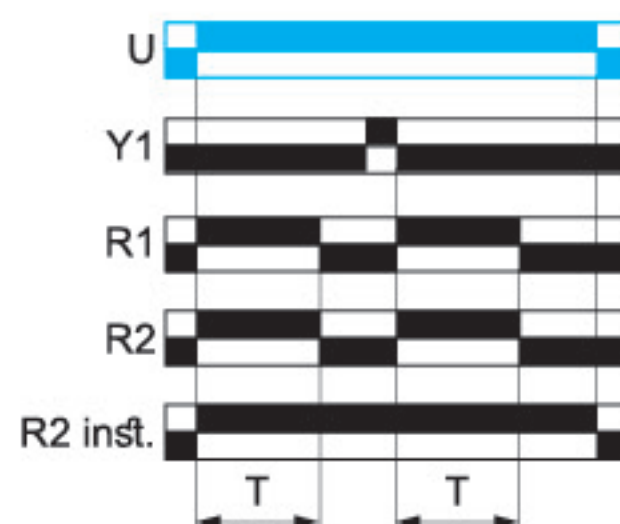
Function Hw : Interval relay with retrigger/restart control signal

1 output

Function Hw



2 outputs

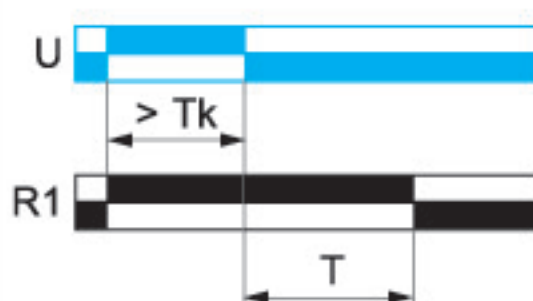


After power-on, output(s) R close(s) and timing period T starts. At the end of the timing period T, the output(s) R open(s). At any state of the output(s) R when Y1 closes and then re-opens, the output(s) R close(s) and restart(s) the same operation as described at the beginning. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

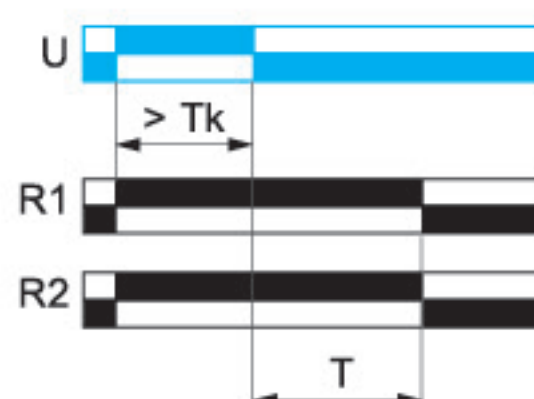
Function K: Delay on de-energization (without auxiliary supply)

1 output

Function K



2 outputs



After power-on, the output(s) R close(s). After power-off, timing period T starts and, at the end of this period, the output(s) R open(s).

The power-on $> T_k$ is necessary to sustain the timing period T.

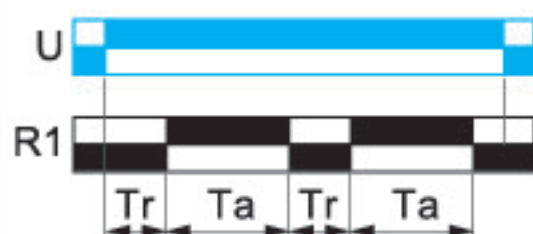
There are 3 references with different T_k as follows:

- (a) RE22R1KMR $\rightarrow T_k = 1\text{ s}$
- (b) RE22R2KMR $\rightarrow T_k = 1\text{ s}$
- (c) RE22R1MKMR $\rightarrow T_k = 80\text{ ms}$

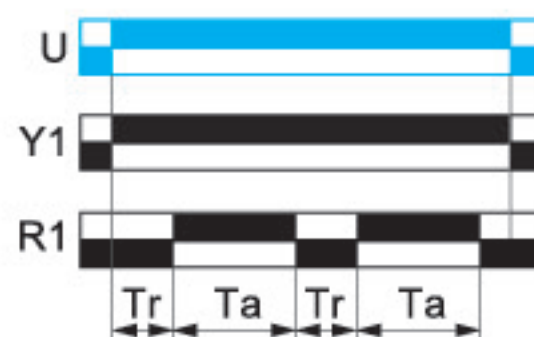
Function L: Asymmetrical flashing relay (starting pulse-off)

1 output

Function L



1 output



Repetitive cycle consisting of 2, independently adjustable timing periods T_a and T_r .

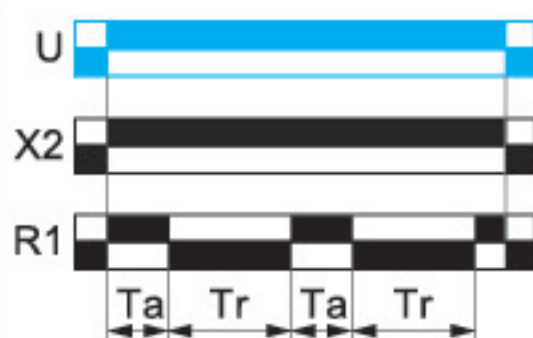
Each timing period corresponds to a different state of the output R.

Note: Function L with Y1 is only for the RE17 range.

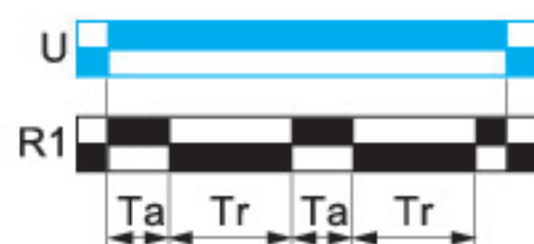
Function Li: Asymmetrical flashing relay (starting pulse-on)

1 output

Function Li



1 output



Repetitive cycle consisting of 2, independently adjustable timing periods T_a and T_r .

Each timing period corresponds to a different state of the output R.

Function Lt: Asymmetrical flashing relay (starting pulse-off) with pause/summation control signal

1 output

Function Lt



$$T_r = t_1 + t_2 + \dots$$

$$T_a = t'_1 + t'_2 + \dots$$

Repetitive cycle comprises of 2, independently adjustable timing periods T_a and T_r .

Each timing period corresponds to a different state of the output R.

Control contact X1 can be operated to partially stop timing periods T_a and T_r .

Function Lit: Asymmetrical flashing relay (starting pulse-on) with pause/summation control signal

1 output

Function Lit



$$T_a = t_1 + t_2 + \dots$$

$$T_r = t'_1 + t'_2 + \dots$$

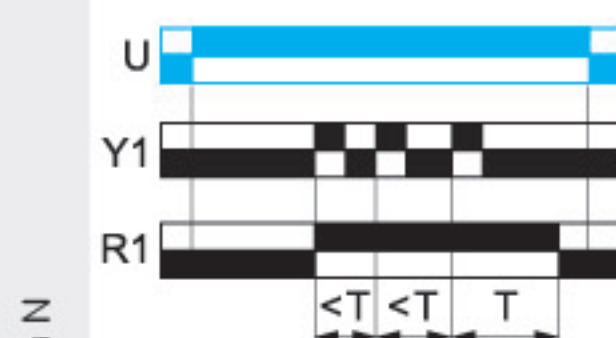
After power-on, output(s) R close(s) for timing duration T_a and the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T_a , the output(s) R open(s).

The output(s) R will remain open for timing duration T_r , the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T_r , then output(s) R close(s). This cycle is repeated indefinitely until the power supply is removed.

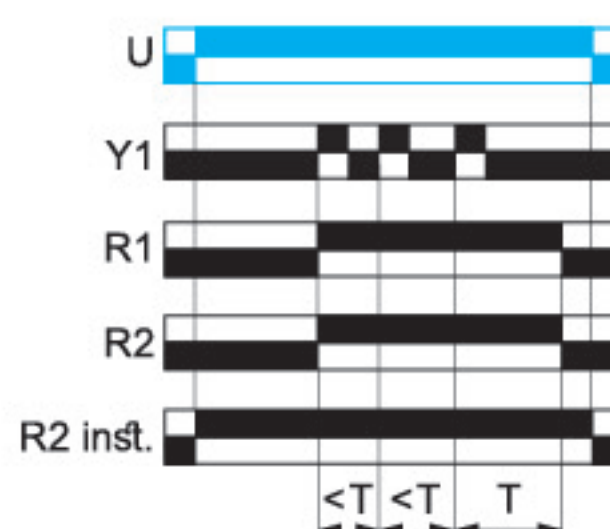
Timing Functions Details

Function N: Safe-guard relay

1 output



2 outputs

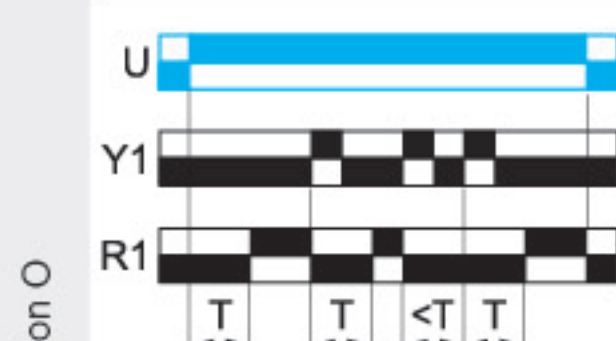


After power-on and at the beginning of the control pulse Y1, the output(s) R close(s).
If the interval between two Y1 control pulses is greater than the set timing period T, timing elapses normally and the output(s) R open(s) at the end of the timing period T. If the interval is less than the set timing period, the output(s) R remain(s) closed until this condition is met.

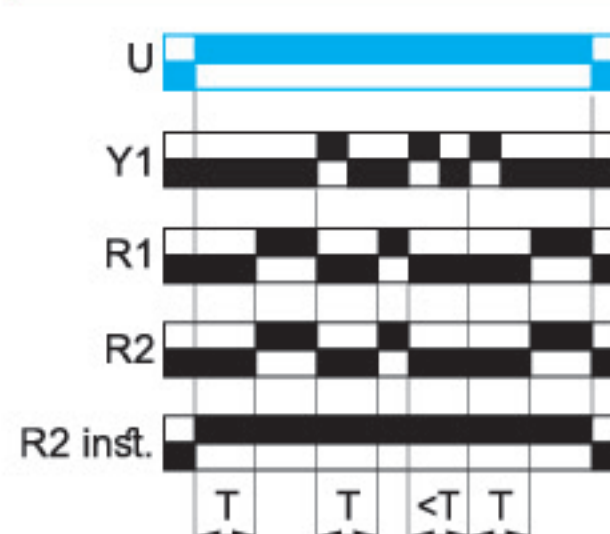
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function O: Delayed Safe-guard relay

1 output



2 outputs



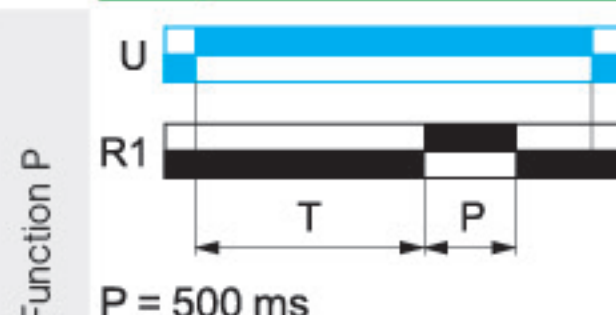
An initial timing period T begins on power-on. At the end of this timing period, the output(s) R close(s).

At the beginning of the control pulse Y1, the output(s) R opens(s) and remain(s) in that state if the interval between two control pulses is less than the value of the set timing period T. Otherwise, the output(s) R close(s) at the end of the timing period T.

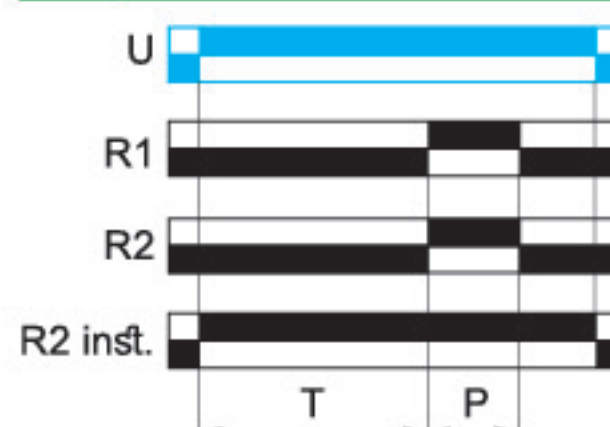
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function P: Pulse delayed relay with fixed pulse length

1 output



2 outputs

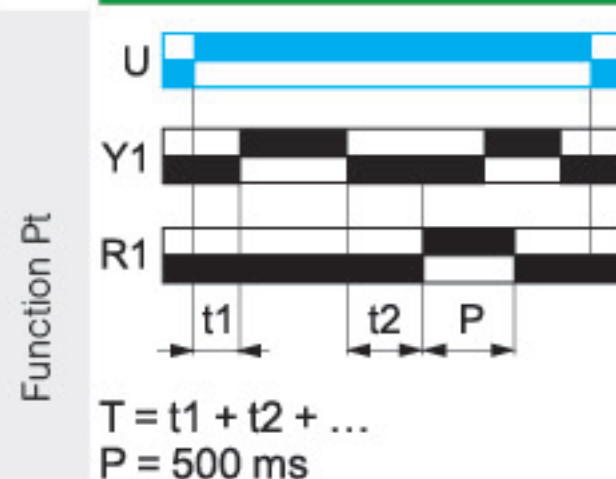


The timing period T starts on power-on. At the end of this period, the output(s) R close(s) for a fixed time P and then open(s).

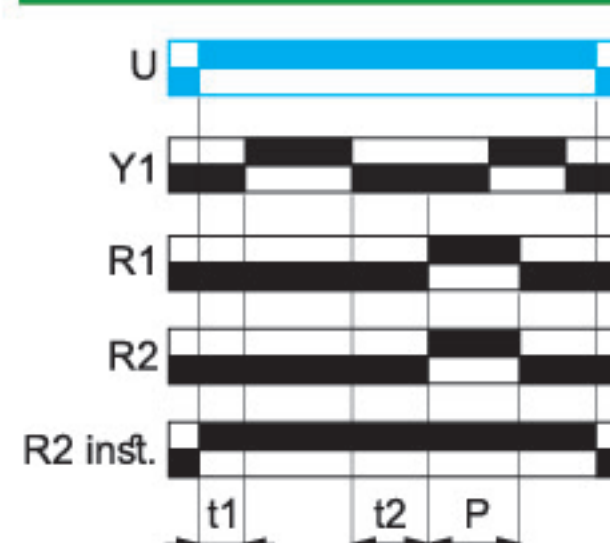
The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Pt: Pulse delayed relay with fixed pulse length and pause/summation control signal

1 output



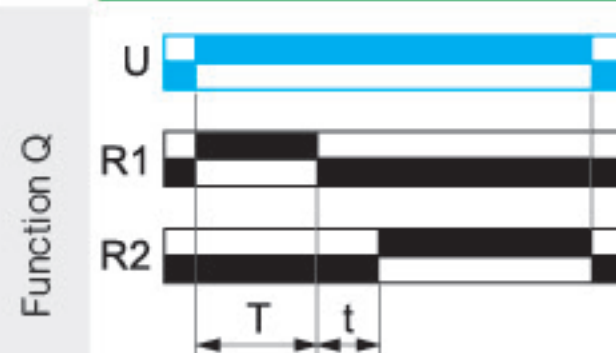
2 outputs



After power-on, timing period T starts (it can be interrupted by operating Y1). When the cumulative total time elapsed reaches the preset value T, the output(s) R close(s) for a fixed time P then open(s). The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Q: Star-delta relay (2 NO outputs with same common)

2 outputs



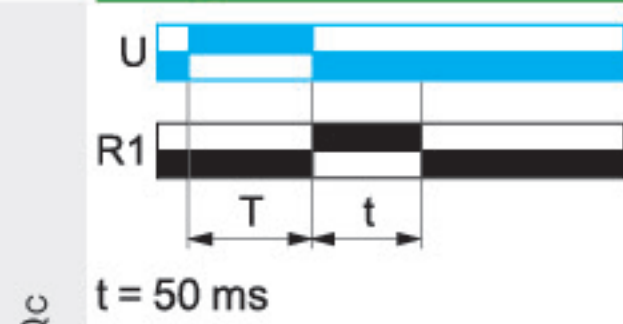
After power-on, the output R1 closes such that it closes the star contactor and the main contactor and the timing T starts (star connection timing period starts). At the end of the timing period T, the output R1 opens such that it opens the star contactor and starts transition time t. At the end of the transition time, the output R2 closes such that it closes the delta contactor.

t = 20, 40, 60, 80, 100, 120, 140 ms selectable

Timing Functions Details

Function Qc: Star-delta relay (1 CO output)

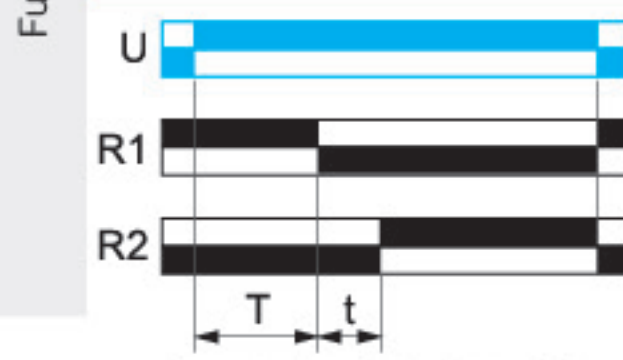
1 output



After power-on, the output R initializes at its initial state to close the star contactor and main contactor and the timing T starts (star connection timing period starts). At the end of the timing period T, output R closes such that it opens the star contactor and starts transition time t. At the end of the transition time, output R reverts to its initial state such that it closes the delta contactor.

Function Qe: Star-delta relay (1 NC + 1 NO outputs with split common)

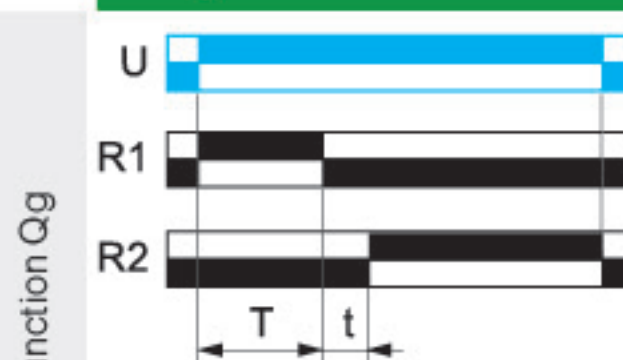
2 outputs



After power-on, the output R1 is at its initial state such that it closes the star contactor and the main contactor and the timing T starts (star connection timing period starts). At the end of the timing period T, output R1 opens such that it opens the star contactor and starts transition time t. At the end of the transition time, output R2 closes such that it closes the delta contactor.

Function Qg: Star-delta relay (2 CO outputs with same common)

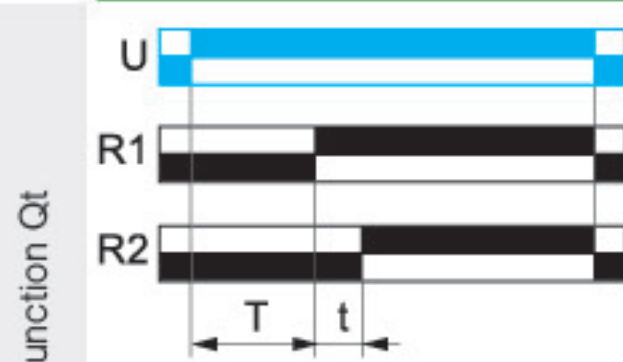
2 outputs



After power-on, output R1 closes the star contactor and the main contactor, and the timing T starts (star connection time period starts). At the end of the timing period T, output R1 reverts to its initial state such that it opens the star contactor and starts transition time t. At the end of the transition time, output R2 closes such that it closes the delta contactor.

Function Qt: Star-delta relay (2 CO outputs with split common)

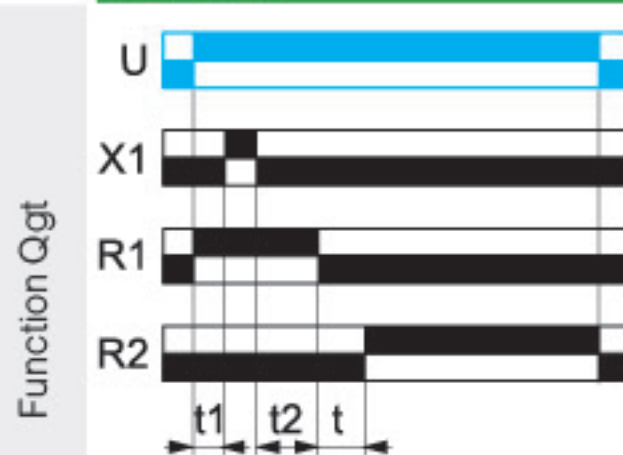
2 outputs



After power-on, the outputs R1 and R2 initialize at its/their initial state such that they close the star contactor and the main contactor and the timing T starts (Star connection time duration starts). At the end of the timing period T, the output R1 closes such that it opens the star contactor and starts transition time t. At the end of the transition time, the output R2 closes such that it closes the delta contactor.

Function Qgt : Star-delta relay (2 CO outputs with same common) with pause/summation control signal

2 outputs

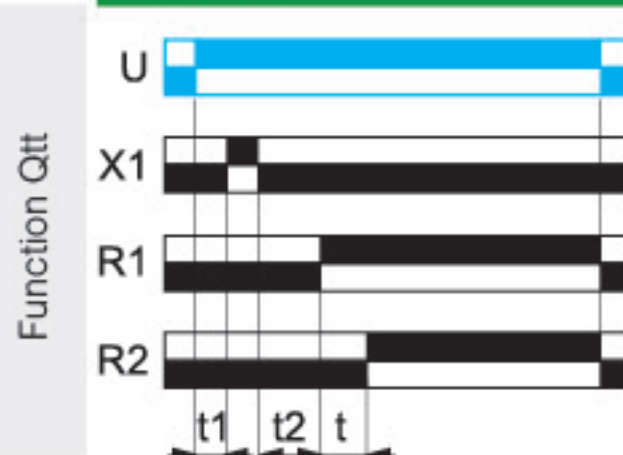


After power-on, output R1 closes the star contactor and the main contactor, and the timing T starts (star connection time period starts).

During star connection time, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, output R1 reverts to its initial state such that it opens the star contactor and starts transition time t. At the end of the transition time, output R2 closes such that it closes the delta contactor.

Function Qtt : Star-delta relay (2 CO outputs with split common) with pause/summation control signal

2 outputs



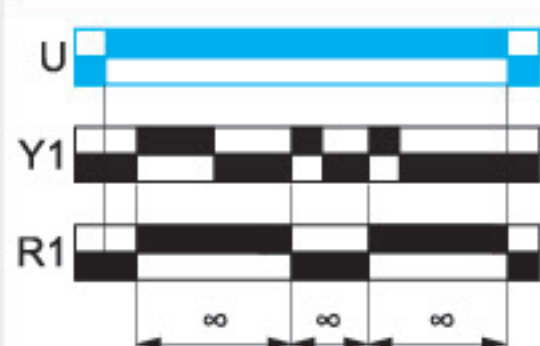
After power-on, the outputs R1 and R2 initialize at its/their initial state such that they close the star contactor and the main contactor and the timing T starts (star connection timing period starts). During star connection time, the timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, output R1 closes such that it opens the star contactor and starts transition time t. At the end of the transition time, output R2 closes such that it closes the delta contactor.

Timing Functions Details

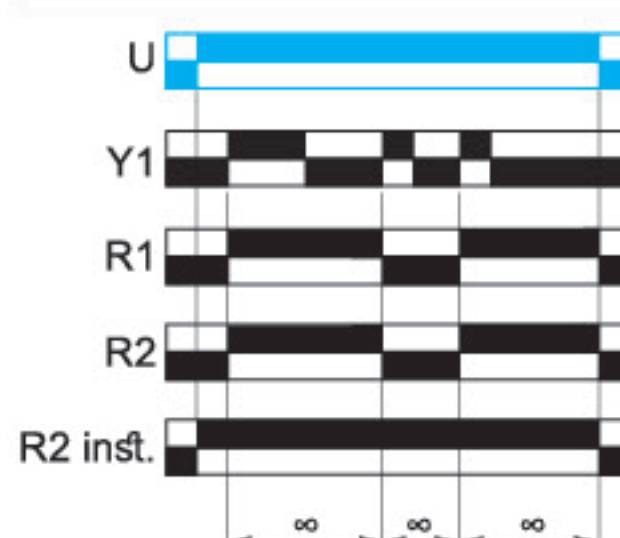
Function Ti: Bistable relay with control signal on

1 output

Function Ti



2 outputs

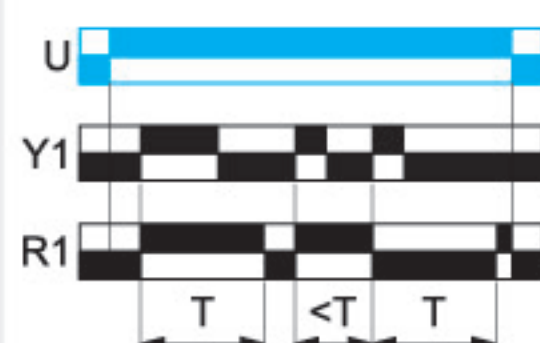


After power-on and closure of Y1, the output(s) R close(s). The subsequent closure of Y1 causes the output(s) R toggle(s) from its/their present state. This cycle is repeated indefinitely until the power supply is removed. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

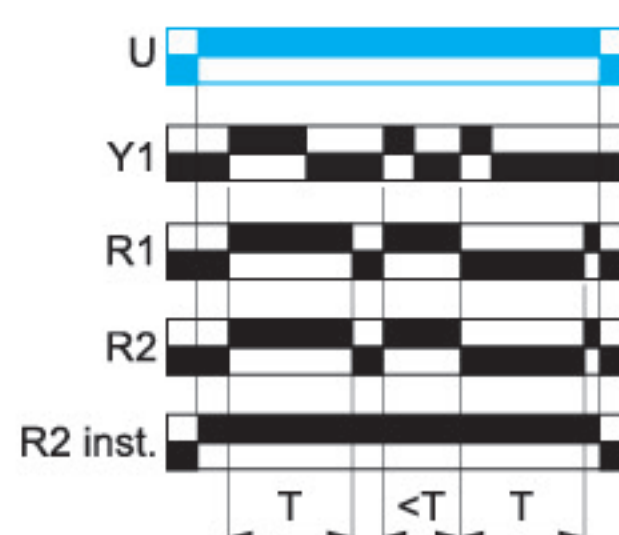
Function Tt: Retriggerable bistable relay with control signal on

1 output

Function Tt



2 outputs

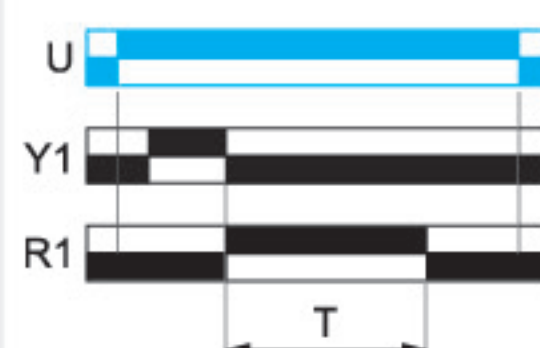


After power-on and closure of Y1, the output(s) R close(s) and the timing T starts. If the interval between 2 consecutive closures of Y1 is greater than the preset value T, the output(s) R will toggle from its/their present state at the end of the timing period. If the interval between 2 consecutive closures of Y1 is less than the preset value T, the output(s) R toggle from its/their present state as soon as Y1 closes without completing duration T. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

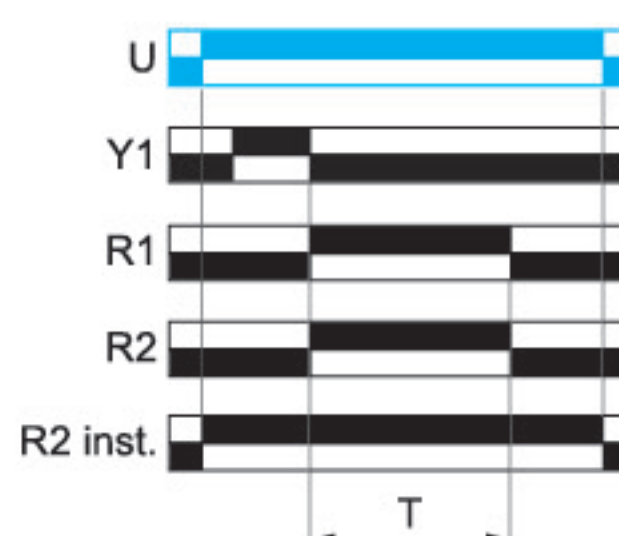
Function W: Interval relay with control signal off

1 output

Function W



2 outputs

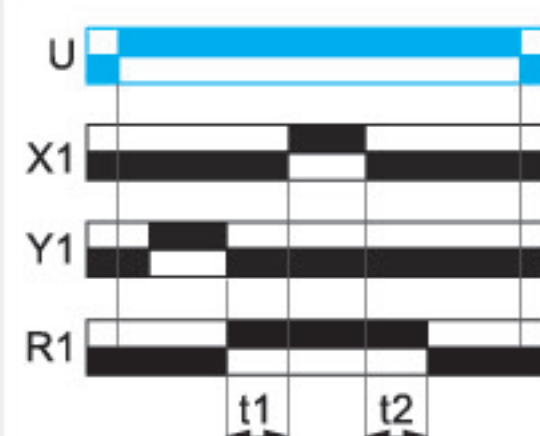


After power-on and at the end of control pulse Y1, the output(s) R close(s) for a timing period T. At the end of this timing period the output(s) open(s). The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function Wt: Interval relay with control signal off and pause/summation control signal

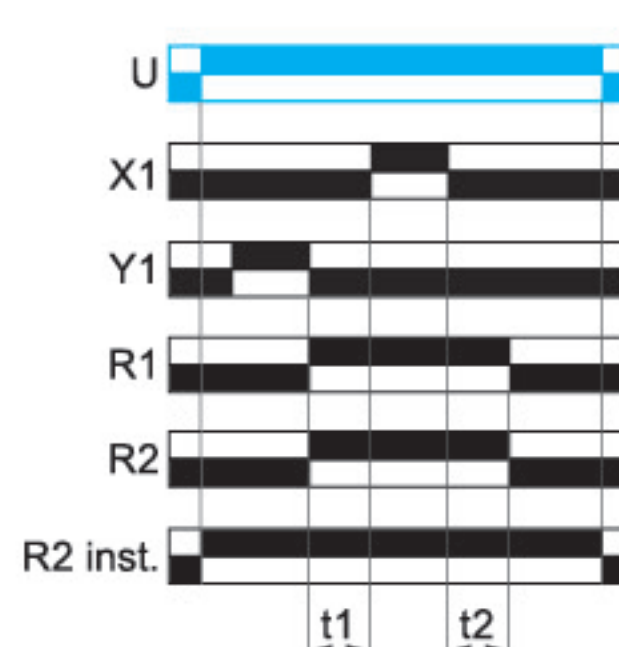
1 output

Function Wt



$$T = t_1 + t_2 + \dots$$

2 outputs



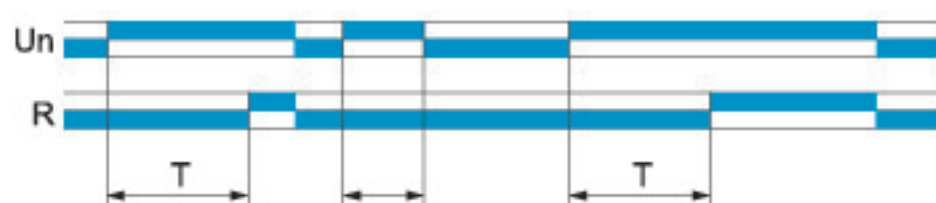
After power-on and at the end of control pulse Y1, the output(s) R close(s) for a timing period T. Timing can be interrupted/paused each time X1 closes. When the cumulative total time elapsed reaches the preset value T, the output(s) R open(s). The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Timing Functions Details

RE48ATM12MW

Function A: Power on-delay relay

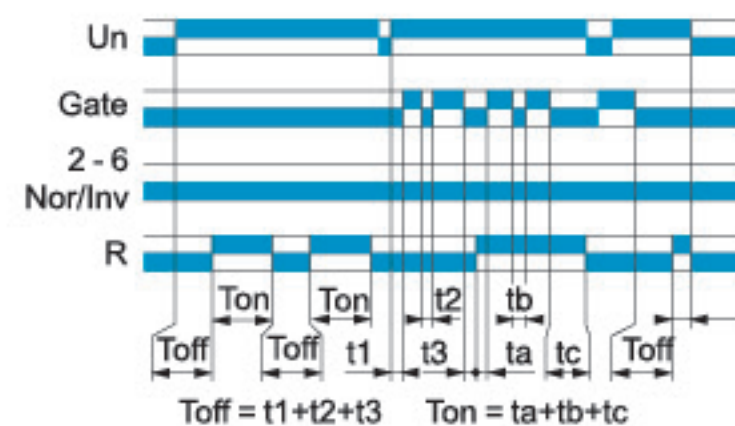
Function A



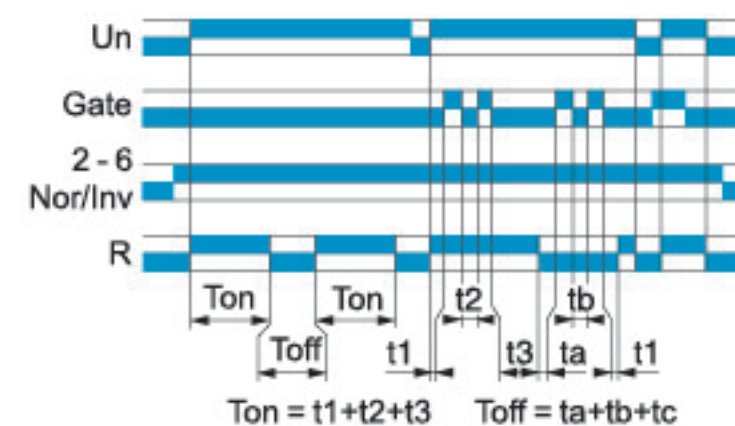
RE48ACV12MW

Function L: Asymmetrical flashing relay (starting pulse-off)

Function L



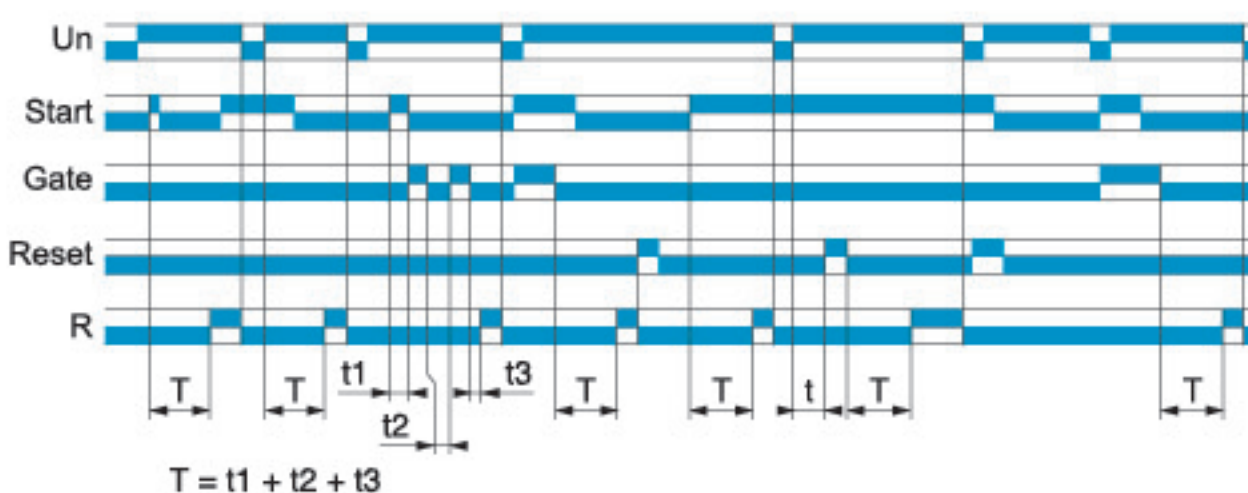
Function Li: Asymmetrical flashing relay (starting pulse-on)



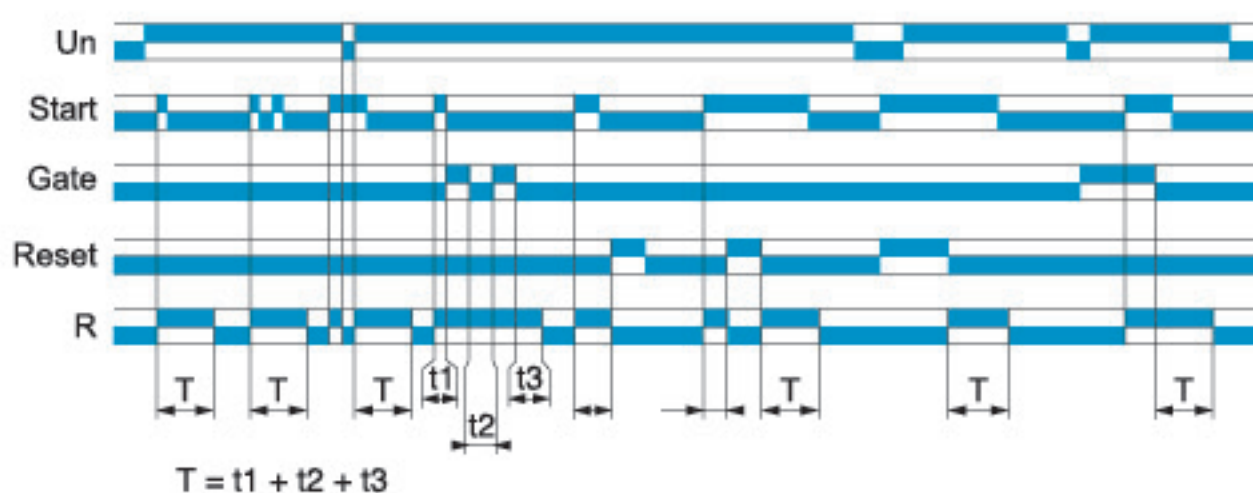
RE48AML12MW

Function A: Power on-delay relay

Function A

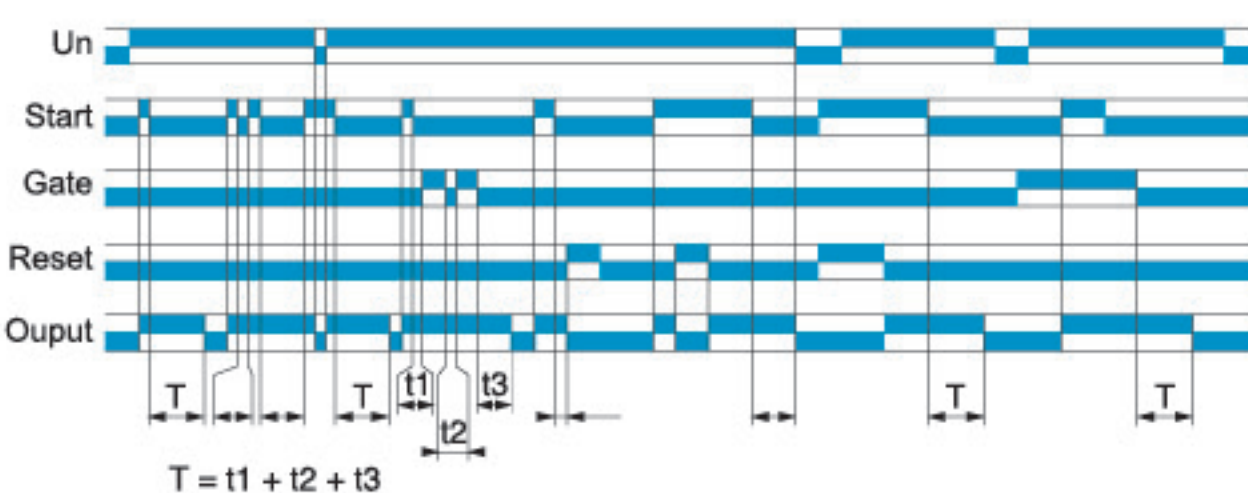


Function B: Interval relay with control signal

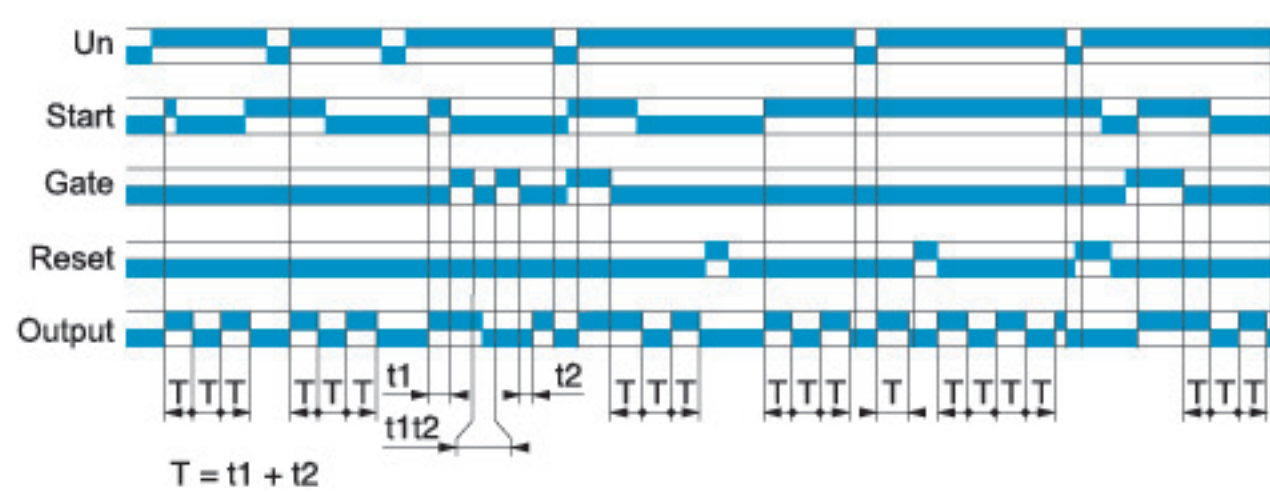


Function C: Off-delay relay with control signal

Function C



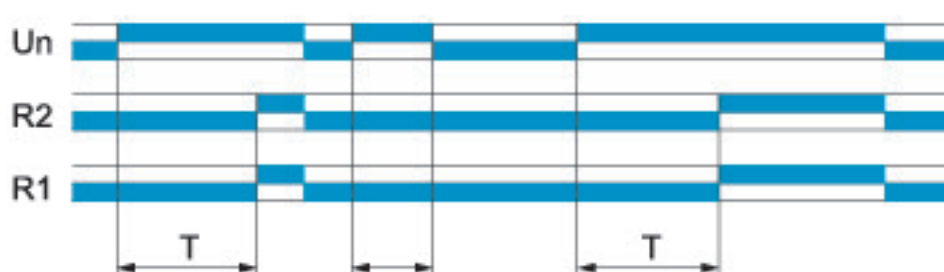
Function Di: Symmetrical flashing relay (starting pulse-on)



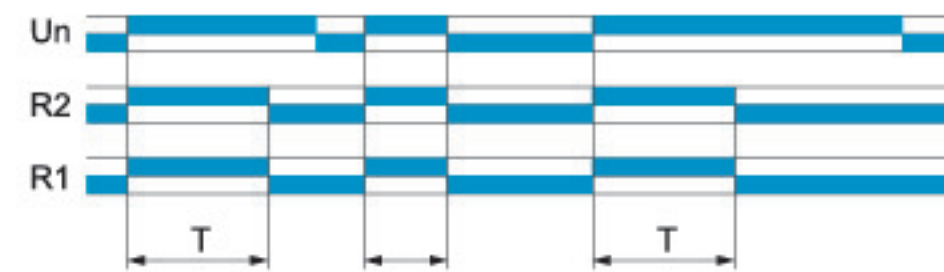
RE48AMH13MW

Functions A1, A2: Delay on energization

Function A1



Functions H1, H2: Pulse-on energization



Note: If A1 or H1 is selected, only R2 is timed, R1 is instantaneous.

Zelio Time Substitution Guide

Old Reference		New Reference
RE7CL11BU	➡	RE22R1DMR
RE7CP13BU	➡	RE22R2DMR
RE7CV11BU	➡	RE22R1MLMR
RE7MA11BU	➡	RE22R1ACMR
RE7MA13BU	➡	RE22R2ACMR
RE7ML11BU	➡	RE22R1MYMR
RE7MV11BU	➡	RE22R1AKMR
RE7MY13BU	➡	RE22R2MYMR
RE7MY13MW	➡	RE22R2MYMR
RE7PD13BU	➡	RE22R2MWMR
RE7PE11BU	➡	RE22R1HMR
RE7PM11BU	➡	RE22R1MYMR
RE7PP13BU	➡	RE22R2HMR
RE7RA11BU	➡	RE22R1CMR
RE7RB11MW	➡	RE22R1KMR
RE7RB13MW	➡	RE22R2KMR
RE7RL13BU	➡	RE22R2CMR
RE7RM11BU	➡	RE22R1CMR
RE7TL11BU	➡	RE22R1AMR
RE7TM11BU	➡	RE22R1MAMR
RE7TP13BU	➡	RE22R2AMR
RE7YA12BU	➡	RE22R2QTMR
RE7YR12BU	➡	RE22R2QGMR
RE8CL11BU	➡	RE17RMMU
RE8PD11B	➡	RE17RMXMU
RE8PD11FU	➡	RE17RMXMU
RE8PD21B	➡	RE17RMXMU
RE8PD21FU	➡	RE17RMXMU
RE8PD31B	➡	RE17RMXMU
RE8PD31FU	➡	RE17RMXMU

Old Reference		New Reference
RE8PE11BUTQ	➡	RE17RHMU
RE8PE21BU	➡	RE17RHMU
RE8PE31BU	➡	RE17RHMU
RE8PT01BU	➡	RE22R1MKMR
RE8RA11B	➡	RE17RCMU
RE8RA11FU	➡	RE17RCMU
RE8RA21BTQ	➡	RE17RCMU
RE8RA21FU	➡	RE17RCMU
RE8RA31B	➡	RE17RCMU
RE8RA31FUTQ	➡	RE17RCMU
RE8RA41FU	➡	RE17RCMU
RE8RB11BU	➡	RE22R1MKMR
RE8RB31BU	➡	RE22R1MKMR
RE8RB51BU	➡	RE22R1MKMR
RE8TA11BU	➡	RE17RAMU
RE8TA21BUTQ	➡	RE17RAMU
RE8TA31BU	➡	RE17RAMU
RE8TA41BU	➡	RE17RAMU
RE8TA61BUTQ	➡	RE17RAMU
RE8YA32BTQ	➡	RE22R2QEMR
RE8YA32FUTQ	➡	RE22R2QEMR
RE8YA32QTQ	➡	RE22R2QEMT
RE8YG11BU	➡	RE22R1QCMU
RE8YG21BUTQ	➡	RE22R1QCMU
RE8YG31BUTQ	➡	RE22R1QCMU
RE9MS21MW	➡	RE17LAMW(Timing function A) RE17LMBM(Timing function D-Di-H)
RE9RA11MW7	➡	RE17LCBM
RE9RA21MW7	➡	RE17LCBM
RE9RA31MW7	➡	RE17LCBM
RE9RA51MW7	➡	RE17LCBM
RE9TA11MW	➡	RE17LAMW
RE9TA21MW	➡	RE17LAMW
RE9TA31MW	➡	RE17LAMW
RE9TA51MW	➡	RE17LAMW
RE9TA51MW	➡	RE17LAMW

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Schneider
Electric



Gain unmatched efficiency with
the Zelio Time – NFC Timing Relay

Power on with the world's first hands-off relay



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Notes

Zelio Control

Electrical



Mechanical



Applications



Three Phase Control

RM17T
RM22T
RM35T
RM35BA
RM35UB

Current Control

RM17J
RM22J
RM35J

Speed Control

RM35S

Level Control

RM22L
RM35L

Pump Control

RM35BA

Lift Control

RM35AT
RM35TM

Voltage Control

RM17U
RM22U
RM35UA

Frequency Control

RM35HZ



Range	RM17	RM35	RM22/35
Electrical 3 Phase :			
Phase Sequence/Phase Failure/Asymmetry	●		●
Phase Sequence/Phase Failure/Undervoltage	●		●
Ph. Sequence/Ph. Failure/Over and Undervoltage		●	●
Ph. Sequence/Ph. Failure/Motor temperature		●	
Mechanical :			
Level Empty or fill (resistive probe or Discrete)		●	●
Speed Control		●	
Voltage :			
3 Ph.: Over&Undervoltage;Absence of neutral/phase		●	
1 Ph./DC: Over and Undervoltage (selfpowered)	●		
1 Ph./DC: Over and Undervoltage window mode	●		●
Single Ph. / DC: Over and Undervoltage		●	●
Current :			
Overcurrent (integrated current transformer)	●		
Overcurrent or undercurrent		●	●
Application :			
Pump / Motor Temperature, Ph.Sequence, Ph. failure / Lift - Control		●	

Zelio Control , RM17/ RM22/ RM35

3 Phase Control relays (8A output) - Test button - RM22



Description	Measurement	Reference	Price
Ph. Sq. & Ph. Failure , 2 C/O	183~528V AC	RM22TG20	41.7
Ph. Sq. & Ph. Fail.+ Asymmetry, 2C/O	380~480V AC	RM22TA33	50
Ph. Sq. & Ph. Fail.+ Over+undervoltage, 2C/O	380~480V AC	RM22TR33	85.8
Ph. Sq. & Ph. Fail.+ undervoltage, 2C/O	380~480V AC	RM22TU23	65

3 Phase Control relays (5A output)- RM17, RM35



Description		Measurement	Reference	Price
Ph. Sq. & Ph. Failure 1 C/O		208~480V AC	RM17TG00	38.6
Ph. Sq. & Ph. Failure 2 C/O		208~480V AC	RM17TG20	40.8
Ph. Sq & Ph. Failure (regeneration 70% Un) 1 C/O		208~480V AC	RM17TT00	50.5
Ph. Sq. & Ph. Fail. Undervolt. 1 C/O		208~480V AC	RM17TU00	46.6
Ph. Sq. & Ph. Fail. +Asymmetry 1 C/O		208~480V AC	RM17TA00	61.7
Ph. Sq. & Ph. Fail.+ Asymmetry + Over/undervoltage window mode 1C/O		208~480V AC	RM17TE00	67.4
Ph. Sq. & Ph. Fail.+ Asymmetry + Over/undervoltage window mode 2C/O		220~480V AC	RM35TF30	91
Under & Overvoltage between phases 1 C/O		220~480V AC	RM17UB310	67.2
Under & Overvoltage between phases 1C/O +1C/O (1 per threshold)		220~480V AC	RM35UB330	86.9
Under & Overvoltage between phases&neutral 1C/O+1C/O(1 per threshold) + asence of neutral		120~277V AC	RM35UB3N30	92.7
Ph. Sq. & Ph. Fail.+ PTC thermal protection 2N/O	Supply: 24~240v AC/DC	208~480V AC	RM35TM50MW	93.5
Ph. Sq. & Ph. Fail.+ PTC thermal protection + test Button, 2N/O	Supply: 24~240v AC/DC	208~480V AC	RM35TM250MW	97.3

* All Prices are in EUR and not including VAT

1 Phase control relays (8A output, Test Button option)- RM22, RM35



Description	Supply Voltage	Measurement Range	Reference	Price
Over Voltage 2 C/O	24~240V AC/DC	15~500V AC/DC	RM22UA23MR	97.5
Under or/and Overvoltage, 2 C/O	380~415V AC	15~500V AC	RM22UA33MT	135
Overcurrent , 2 C/O	24~240V AC/DC	4mA~1A	RM22JA21MR	92.5
Over or/and Undercurrent , 2 C/O	24~240V AC/DC	150mA~15A	RM35JA32MR	102.8
Over or/and Undercurrent , 2 C/O	380~415V AC	150mA~15A	RM35JA32MT	112.2

1 Phase control relay, RM17, RM35



Description	Supply Voltage	Measurement Range	Reference	Price
Under & Overvoltage in window mode 1 C/O	No	65~260V AC/DC	RM17UBE15	53
Under or Overvoltage, 1 C/O	No	65~260V AC/DC	RM17UAS15	51.2
Under or Overvoltage, 2 C/O	24~240V AC/DC	15~600V AC/DC	RM35UA13MW	57.5
Overcurrent , 1 C/O	24~240V AC/DC	2~20A	RM17JC00MW	53.3
Over or Undercurrent , 2 C/O	24~240V AC/DC	2~500mA	RM35JA31MW	60.4
Over or Undercurrent, 2 C/O	24~240V AC/DC	0.15~15A	RM35JA32MW	63.4
«Over and Under Frequency control relay 1C/O+1C/O»	120~277V AC	40~60 Hz	RM35HZ21FM	82.1

Application control Relays



Description	Supply Voltage	Reference	Price
Protection for Pumps (1-ph & 3-ph) 1C/O	3 phase:208~480V 1 Phase:230V AC	RM35BA10	113.7
Over&under Current, Phase sequence&failure (for 3 phase)	24~240V AC/DC	RM35ATL0MW	65
Temperature control relay for lifts application, 1C/O	24~240V AC/DC	RM35ATR5MW	68.3
Temperature control relay for lifts application, 2 NO	24~240V AC/DC	RM35ATW5MW	98
Temperature control relay for lifts application, 2 NO , Phase sequence & Phase failure	24~240V AC/DC	RM35S0MW	76.5
Under & Over Speed control relay 1C/O	24~240V AC/DC	RM35LM33MW	54
Level control by resistive probes, 2 C/O, 5A	24~240V AC/DC	RM22LG11MR	43.3
Liquid level 1 C/O, 8A	380~415V AC	RM22LG11MT	54.1
Liquid level 1 C/O, 8A	24~240V AC/DC	RM35LV14MW	83.9
Level control for non-conductive material	-	LA9RM201	43.4

* All Prices are in EUR and not including VAT

Zelio Control Substitution Guide

Old Reference		New Reference		Old Reference		New Reference
RM4JA01B	➡	RM22JA21MR		RM4UA33MW	➡	RM22UA33MR
RM4JA01F	➡	RM22JA21MR		RM4UA33Q	➡	RM22UA33MT
RM4JA01M	➡	RM22JA21MR		RM4UB34	➡	RM22UB34
RM4JA31F	➡	RM22JA31MR		RM4UB35	➡	RM22UB34
RM4JA31M	➡	RM22JA31MR		RM4TA01	➡	RM22TA10
RM4JA31MW	➡	RM22JA31MR		RM4TA02	➡	RM22TA10
RM4JA31Q	➡	No Replacement		RM4TA31	➡	RM22TA30
RM4JA32F	➡	RM35JA32MR		RM4TA32	➡	RM22TA30
RM4JA32M	➡	RM35JA32MR		RM4TG20	➡	RM22TG20
RM4JA32MW	➡	RM35JA32MR		RM4TR31	➡	RM22TR31
RM4JA32Q	➡	RM35JA32MT		RM4TR32	➡	RM22TR32
RM4UA01B	➡	RM22UA21MR		RM4TR33	➡	RM22TR31
RM4UA01F	➡	RM22UA21MR		RM4TR34	➡	RM22TR32
RM4UA01M	➡	RM22UA21MR		RM4TR35	➡	No Replacement
RM4UA02B	➡	RM22UA12MR		RM4TU01	➡	RM22TU01
RM4UA02F	➡	RM22UA12MR		RM4TU02	➡	RM22TU02
RM4UA02M	➡	RM22UA12MR		RM4LA32B	➡	RM22LA32MR
RM4UA03B	➡	RM22UA13MR		RM4LA32F	➡	RM22LA32MR
RM4UA03F	➡	RM22UA13MR		RM4LA32M	➡	RM22LA32MR
RM4UA03M	➡	RM22UA13MR		RM4LA32MW	➡	RM22LA32MR
RM4UA31F	➡	RM22UA31MR		RM4LA32Q	➡	RM22LA32MT
RM4UA31M	➡	RM22UA31MR		RM4LG01B	➡	RM22LG11MR
RM4UA31MW	➡	RM22UA31MR		RM4LG01F	➡	RM22LG11MR
RM4UA31Q	➡	No Replacement		RM4LG01M	➡	RM22LG11MR
RM4UA32F	➡	RM22UA32MR		RM4LG01Q	➡	RM22LG11MT
RM4UA32M	➡	RM22UA32MR				
RM4UA32MW	➡	RM22UA32MR				
RM4UA32Q	➡	No Replacement				
RM4UA33F	➡	RM22UA33MR				
RM4UA33M	➡	RM22UA33MR				



Simply reliable.

Simply available.

Meet Zelio RXG, the first relay that you can test and operate with just one finger

Zelio™ RXG is easy to use and maintain thanks to innovative single-step lockable test button for tool-free testing. Designed for greater flexibility, the relay enables easy integration and replacement, and allows optimized inventory of separate protection modules. Thanks to its unique features and excellent performance, the Zelio RXG makes your operations easier, safer, and more reliable.



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Notes

Zelio Electro-mechanical relays

Industrial relay that brings full features for easy and safe control on simple and complex automated system.

Interface Relay

		
RSL	RSB	RXG
 Number of Pins		
5 Pins	5 Pins, 8 Pins	5 Pins, 8 Pins
 Current		
6A	8 -12-16A	10- 5 A
 Durability		
10 M (without load) 60 K (with load)	30 M (without load) 100 K (with load)	10 M (without load) 100 K (with load)
 Pin Type		
PCB Pins		Flat Pins

Miniature Relay

	
RXM*LB	RXM*AB
 Number of Pins	
8 Pins, 14 Pins	8 Pins, 11 Pins, 14 Pins
 Current	
3-5 A	12-10-6 A
 Durability	
10 M (without load) 100 K (with load)	10 M (without load) 100 K (with load)
 Pin Type	
Flat Pins	

Power Relay

	
RPM	RPF
 Number of Pins	
5 Pins, 8 Pins, 11 Pins, 14 Pins	6 Pins, 8 Pins
 Current	
15A	30A
 Durability	
10 M (without load) 100 K (with load)	5 M (without load) 100 K (with load)
 Pin Type	
Flat Pins	

Universal Relay


RUM
 Number of Pins
8 Pins, 11 Pins
 Current
10A
 Durability
5 M (without load) 100 K (with load)
 Pin Type
Cylindrical - Flat Pins

Plug-in relays

PCB Interface relays - RSB



No of C/O	Control Voltage	Description	Reference	Price
2	230 VAC	8 Amp Relay - 8 Pins without socket	RSB2A080P7	5.6
2	24 VDC	8 Amp Relay - 8 Pins without socket	RSB2A080BD	3
2	24 VAC	8 Amp Relay - 8 Pins without socket	RSB2A080B7	5.6
2	12 VDC	8 Amp Relay - 8 Pins without socket	RSB2A080JD	3
2	60 VDC	8 Amp Relay - 8 Pins without socket	RSB2A080ND	3.5
	Socket 8 Pins		RSZE1S48M	2.8

Universal relays



No.Of C/O	Description	Reference	Price
2	Relay 8 Pins Circular without socket	RUMC21**	7.2
	Socket 8 Pins	RUZC2M	2.6
3	Relay - 11 Pins	RUMC31**	8.3
	Socket 11 Pins	RUZC3M	2.8

** For required control voltage, go to table (1)

Table : 1

AC voltage 50/60HZ					
24V	48V	120V	230V		
B7	E7	F7	P7		
DC voltage					
12V	24V	48V	110V	220V	60V
JD	BD	ED	FD	MD	ND

Accessories



Description	Reference	Price
Timer module For 11 Pin Relays with RUZ-7A socket	RUW101MW	48.8
Protection MODULE-DIODE 6..250 V for Rum	RUW240BD	1.5

* All Prices are in EUR and not including VAT

Miniature relays



No.Of C/O	Description		Reference	Price
2	12 Amp	Relay - 11 Pins without socket	RXM2AB1**	4.2
		Socket 8 Pins	RXZE2S108M	2.9
3	10 Amp	Relay - 11 Pins without socket	RXM3AB1**	4.4
		Socket 11 Pins	RXZE2S111M	3
4	6 Amp	Relay - 14 Pins without socket	RXM4AB1**	4.4
		Socket 14 Pins	RXZE2S114M	2.6

** For required control voltage, go to table (2)

Table : 2

AC voltage 50/60HZ				
24V	48V	120V	230V	
B7	E7	F7	P7	

DC voltage				
12V	24V	48V	110V	220V
JD	BD	ED	FD	MD

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Innovative, with state-of-the-art performance



Zelio SSP1 panel mount solid state relays

- Simple, secure, and robust wiring with innovative terminals
- Embedded visual indication and output to monitor operation
- Easy to test and commission with debugging test button

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Zelio Solid State Relays

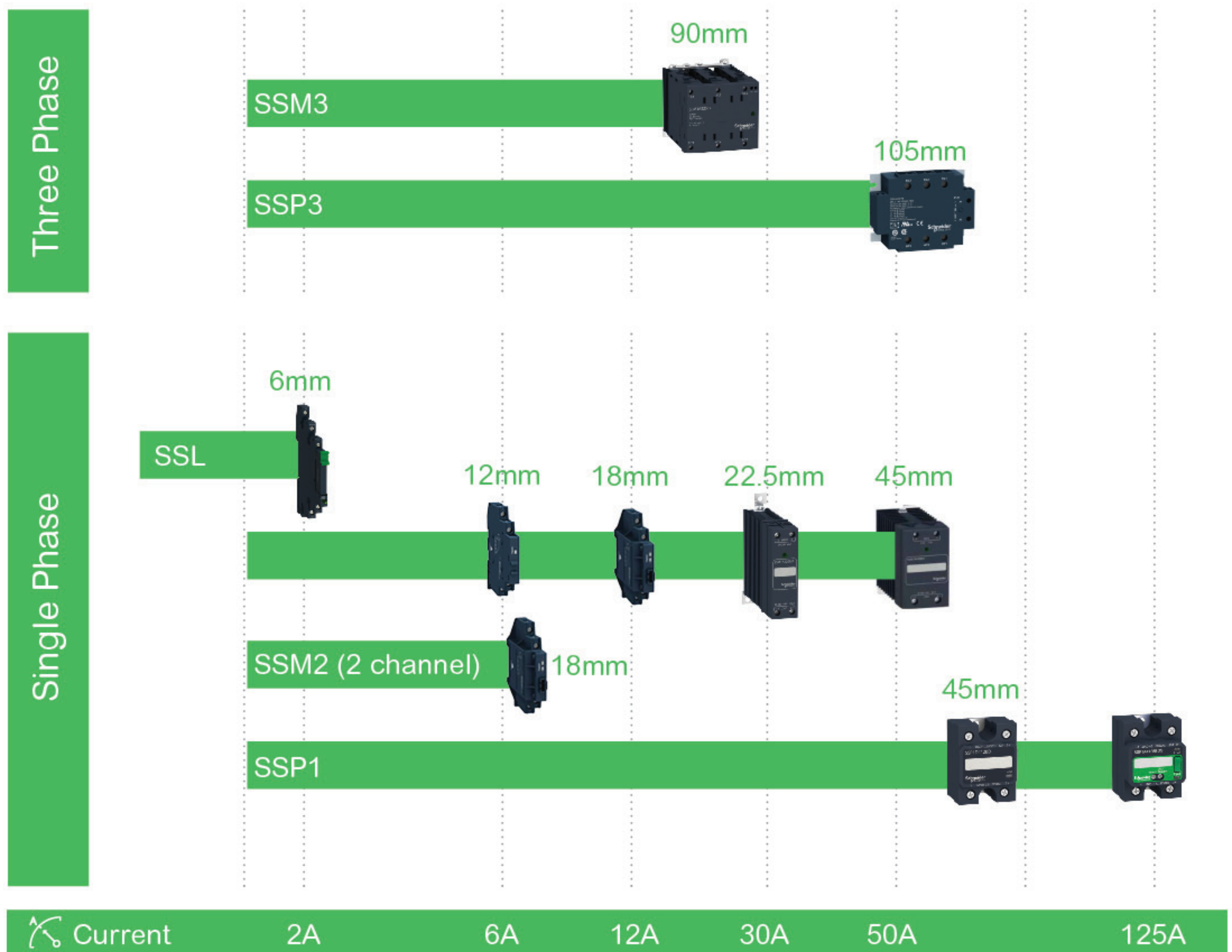
The Zelio Solid State relay offers benefits of solid state technology, like ultra-fast switching and a long service life, together with innovative features.

Maintenance free
fully electronic,
unlimited life span

**High switching
frequency**
allows precise and
quick control

**Silent and
reliable switching**
no moving parts,
noiseless switching

**Sustainability in
harsh environment**
resistance to shock,
vibration, and
contamination



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Notes

Notes

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