



time delay relay 8 functions - 0.05..1 s - 24 V AC DC - 2OC

RE7MY13BU

! Ukončené dňa: 1. 6. 2016

! Ukončené

Základní popis

Sortiment Výrobkov	Zelio Time
Typ Produktu Alebo Komponentu	Průmyslové časovací relé
Typ A Zloženie Kontaktu	2 Z/V
Označení Přístroje	RE7
Typ Časového Zpoždění	Qt A C H Qg W D DI
Rozsah Časového Oneskorenia	0,05 s...300 hod

Doplňky

Typ Diskrétneho Výstupu	Reléový
Materiál Kontaktu	90/10 stříbrniklové kontakty
Šířka	22,5 mm
[Us] Jmenovité Napájecí Napětí	110...240 V AC Column : Value (Slovak) missing 24 V AC/DC Column : Value (Slovak) missing 42...48 V AC/DC Column : Value (Slovak) missing
Rozsah Napětí	0,85...1,1 Us
Pripojenie - Svorky	Skrutková svorka, 2 x 1,5 mm² pružnosť s kabelovou koncovkou Skrutková svorka, 2 x 2,5 mm² pružnosť bez kabelové koncovky
Tightening Torque	0,6...1,1 N.m
Presnosť Nastavenia Časového Oneskorenia	+/- 10 % z plného rozsahu
Opakovateľná Přesnost	+/- 0,2 %
Teplotní Odchylka	< 0,07 %/°C
Odchylka Napětí	< 0,2 %/V
Minimálna Dĺžka Pulzu	20 ms
Doba Resetu	50 ms
Maximální Spínací Napětí	250 V AC/DC
Mechanická Trvanlivosť	20000000 cykly
[Ith] Menovitý Tepelny Prúd	8 A

Vyhlasenie: Táto dokumentácia neurčuje náhradu a nemá slúžiť na určenie vhodnosti a spoľahlivosti týchto produktov na špecifické použitie spotrebiteľmi.

Maximum [Ie] Rated Operational Current	2 A DC-13 24 V při 70 °C vyhovuje IEC 60947-5-1/1991/VDE 0660 0,1 A DC-13 250 V při 70 °C vyhovuje IEC 60947-5-1/1991/VDE 0660 0,2 A DC-13 115 V při 70 °C vyhovuje IEC 60947-5-1/1991/VDE 0660 3 A AC-15 při 70 °C vyhovuje IEC 60947-5-1/1991/VDE 0660
Minimální Spínací Schopnost	10 mA při 12 V
Vstupní Napětí	< 60 V Y1Z2 svorka(y)
Maximální Spínací Proud	1 mA (Y1Z2)
Použití Vstupu (Kompatibilita)	3/4-vodič. snímače PNP/NPN bez vnitřní zátěže <50 m Y1Z2 svorka(y)
Parametry Potenciometru	Lineární 47 kOhm (+/- 20 %), 0,2 W, délka kabelu <25 m Z1Z2 svorka(y)
Značenia	CE
Kategorie Přepětí	III vyhovuje IEC 60664-1
[Ui] Jmenovité Izolační Napětí	250 V mezi kontakt obvodu a ovl. vstupy IEC certifikováno 250 V mezi kontakt obvodu a napájení IEC certifikováno 300 V mezi kontakt obvodu a ovl. vstupy CSA certifikováno 300 V mezi kontakt obvodu a napájení CSA certifikováno
Hodnota Odpojení Pro Napájení	> 0,1 Uc
Pracovní Poloha	Libovolná poloha ne
Odolnost Proti Přepětí	2 kV vyhovuje IEC 61000-4-5 úroveň 3
Příkon Ve Va	2 VA při 48 V 1,2 VA při 24 V 12,5 VA při 240 V 2,8 VA při 110 V
Příkon Ve W	0,8 W při 24 V 1,6 W při 48 V
Popis Svorek	ALT (Z2)UNUSED (B1-A2)CO (15-16-18)OC (25-26-28)OC (Y1)UNUSED (Z1)UNUSED
Výška	78 mm
Šírka	22,5 mm
Hĺbka	80 mm
Čistá Hmotnosť	0,15 kg

Prostředí

Odolnosť Voči Mikroprerušeniam	3 ms
Štandardy	EN/IEC 61812-1
Certifikácia Výrobkov	UL CSA GL
Teplota Okolitého Vzduchu Na Skladovanie	-40...85 °C
Teplota Okolitého Vzduchu Na Prevádzku	-20...60 °C
Relatívni Vlhkost	15...85 % 3K3 vyhovuje IEC 60721-3-3
Odolnosť Proti Vibracím	0,35 mm (f= 10...55 Hz) vyhovuje IEC 60068-2-6
Odolnosť Proti Otřesům	15 gn pro 11 ms vyhovuje IEC 60068-2-27
Stupeň Krytí Ip	IP20 (svorky) IP50 (skříňka)
Pollution Degree	3 vyhovuje IEC 60664-1

Dielektrická Pevnost	2,5 kV
Nerozptýlená Rázová Vlna	4,8 kV
Odolnost Proti Elektrostatickému Výboji	6 kV v kontaktu vyhovuje IEC 61000-4-2 úroveň 3 8 kV ve vzduchu vyhovuje IEC 61000-4-2 úroveň 3
Odolnost Proti Elektromag. Polím	10 V/m vyhovuje IEC 61000-4-3 úroveň 3
Odolnost Proti Rychlým Přechodům	2 kV vyhovuje IEC 61000-4-4 úroveň 3
Rušení Vyzařováním (Radiové)/ Rušení Vedením	CISPR 11 skupina 1 - třída A CISPR 22 - třída A

baliace jednotky

Typ Balenia 1	PCE
Počet Výrobkov V Balení 1	1

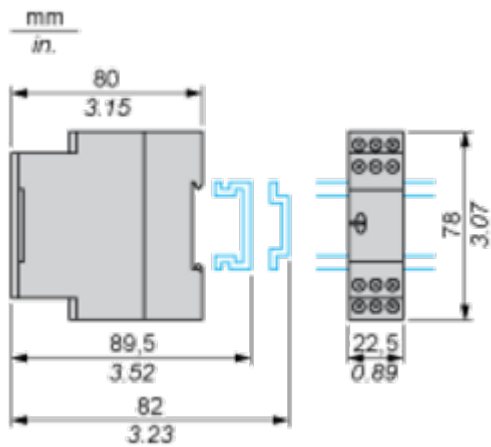
Záruční lhůta

Záruka	18 months
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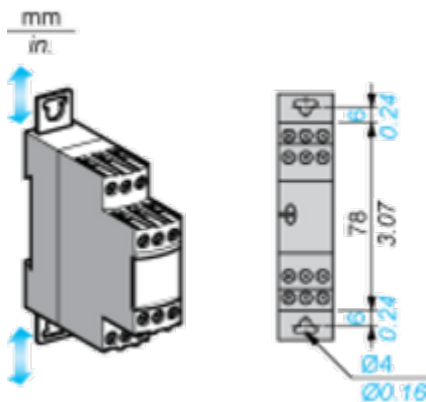
Dimensions Drawings

Width 22.5 mm

Rail Mounting

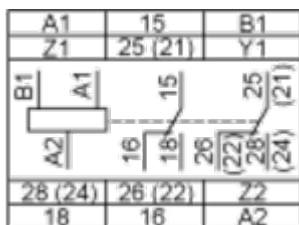


Screw Fixing



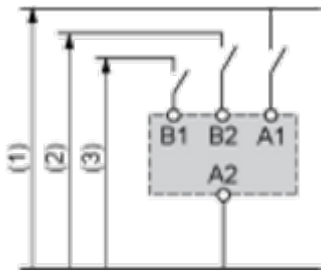
Connections and Schema

Internal Wiring Diagram



Recommended Application Wiring Diagram

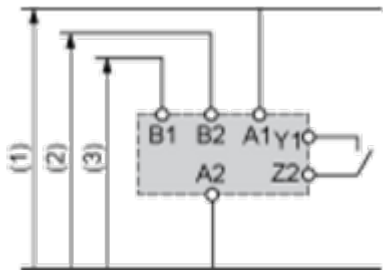
Start on Energisation



- 1 Supply
- 2 12...48 V
- 3 24 V

Recommended Application Wiring Diagram

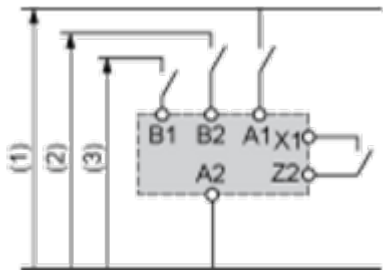
Start by External Control



- 1 Supply
- 2 12...48 V
- 3 24 V

Recommended Application Wiring Diagram

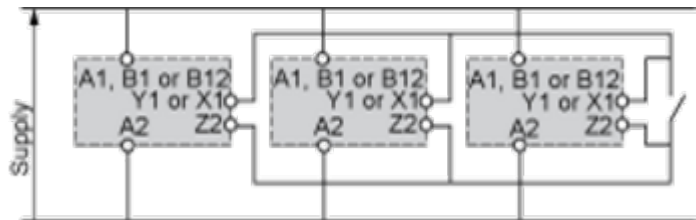
External Control of Partial Stop



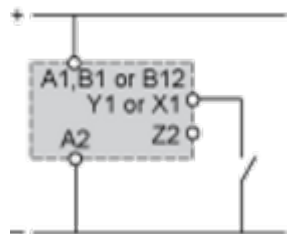
- 1 Supply
- 2 12...48 V
- 3 24 V

Control of Several Relays

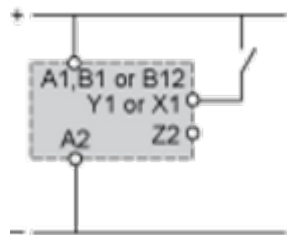
Control of several relays with a single external control contact



Connection of an External Control Contact Without Using Terminal Z2

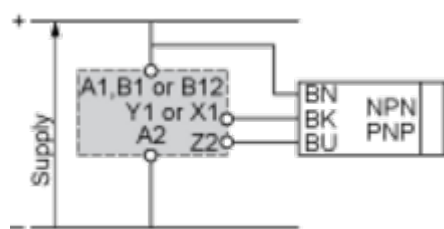


Direct current supply only.
It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.



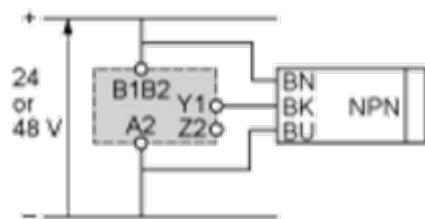
Direct current supply only.
It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

Connection 3-Wire NPN or PNP Sensor



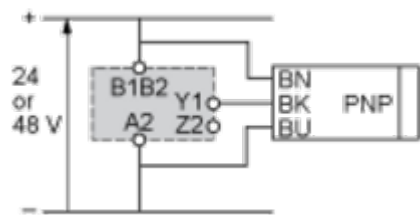
Connection 3-Wire NPN or PNP Sensor Without Using Terminal Z2

Connection NPN



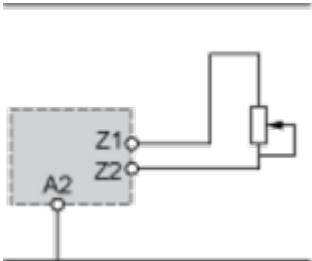
It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

Connection PNP



It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

Connection of Potentiometer



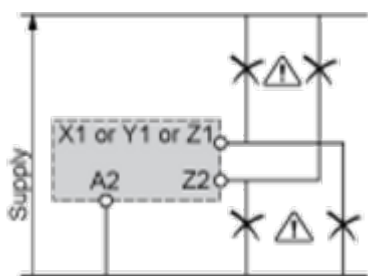
Connection Precautions

 WARNING

UNEXPECTED EQUIPMENT OPERATION

No galvanic isolation between supply terminals and control inputs.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

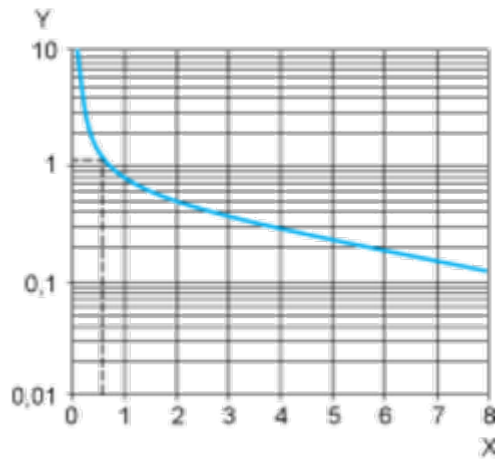


Performance Curves

Performance Curves

A.C. Load Curve 1

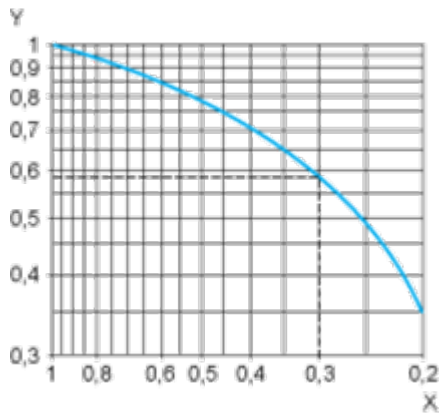
Electrical durability of contacts on resistive loading millions of operating cycles



X Current broken in A
Y Millions of operating cycles

A.C. Load Curve 2

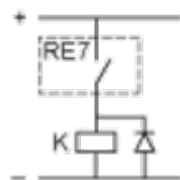
Reduction factor k for inductive loads (applies to values taken from durability curve 1).



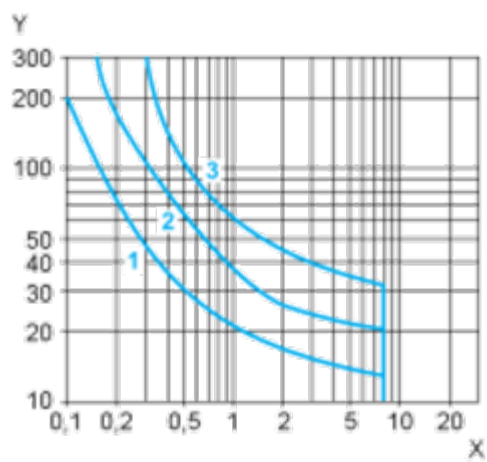
X Power factor on breaking (cos φ)
Y Reduction factor k

Example: An LC1-F185 contactor supplied with 115 V/50 Hz for a consumption of 55 VA or a current consumption equal to 0.1 A and cos φ = 0.3. For 0.1 A, curve 1 indicates a durability of approximately 1.5 million operating cycles. As the load is inductive, it is necessary to apply a reduction coefficient k to this number of cycles as indicated by curve 2.

For cos φ = 0.3: k = 0.6 The electrical durability therefore becomes: 1.5 10⁶ operating cycles x 0.6 = 900 000 operating cycles.



D. C. Load Limit Curve



- X Current in A
Y Voltage in V
1 L/R = 20 ms
2 L/R with load protection diode
3 Resistive load

Technical Description

Function A : Power on Delay Relay

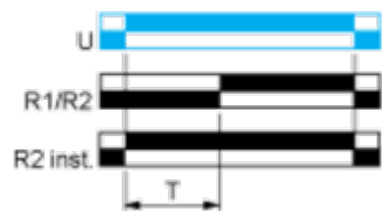
Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



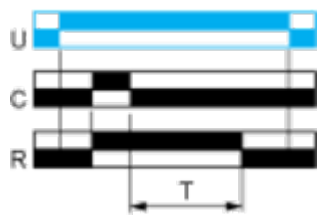
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function C : Off-Delay Relay with Control Signal

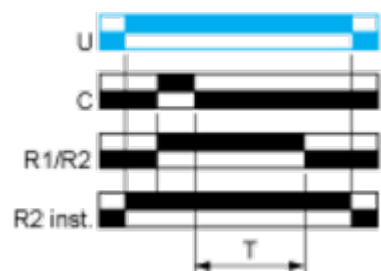
Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



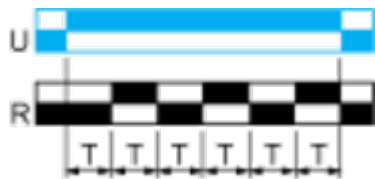
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

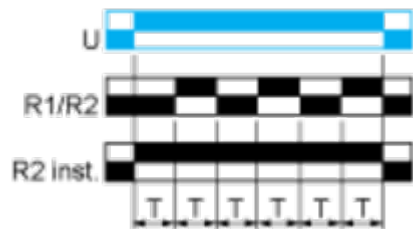
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.
The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



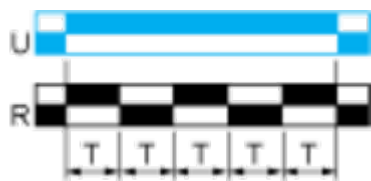
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

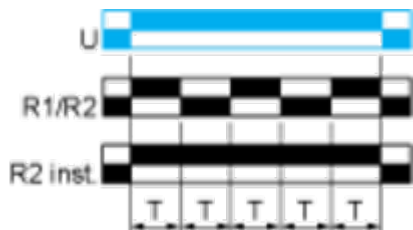
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.
The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function H : Interval Relay

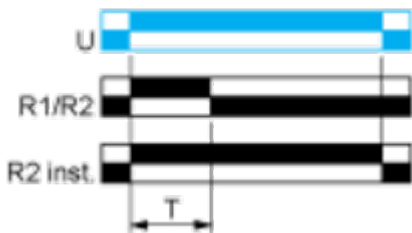
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



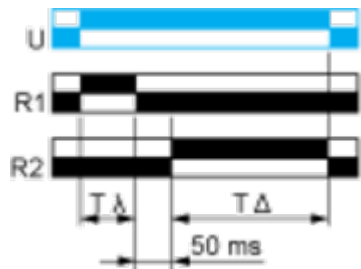
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Qg: Star-Delta Timing

Description

Timing for star-delta starter with contact for switching to star connection.

Function: 1 Output

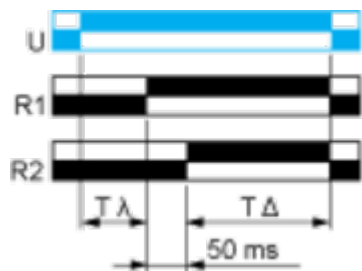


Function Qt: Star-Delta Timing

Description

Timing for star-delta starter with double On-delay period.

Function: 1 Output



Function W : Interval Relay with Control Signal Off

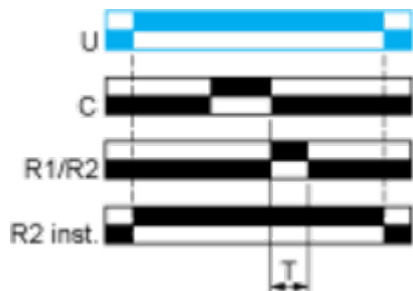
Description

After power-up and opening of the control contact, the output(s) close(s) for a timing period T.
At the end of this timing period the output(s) revert(s) to its/their initial state.
The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.).

Legend

	Relay de-energised
	Relay energised
	Output open
	Output closed

C	Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
T	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply