

# Product data sheet

Specifications



## industrial timing relay - 0.3..30 s - type C - 110..240 V AC - 1 C/O

RE8RA31FU

! Discontinued on: 02 December 2020

! End-of-service on: 31 December 2020

! Discontinued

### Main

Range of Product	Zelio Time
Product or Component Type	Optimum industrial timing relay
Component name	RE8
Time delay type	C
Time delay range	0.3...30 s
Sale per indivisible quantity	10

### Complementary

Discrete output type	Relay
Contacts material	90/10 silver nickel contacts
Width pitch dimension	0.89 in (22.5 mm)
[Us] rated supply voltage	110...240 V AC 50/60 Hz
Voltage range	0.9...1.1 Us
Connections - terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> flexible with cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> flexible without cable end
Tightening torque	5.31...9.74 lbf.in (0.6...1.1 N.m)
Setting accuracy of time delay	+/- 20 % of full scale
Repeat accuracy	< 1 %
Voltage drift	< 2.5 %/V
Temperature Drift	< 0.2 %/°C
Minimum pulse duration	26 ms
Reset time	50 ms
Maximum switching voltage	250 V
Mechanical durability	20000000 cycles
[Ith] conventional free air thermal current	8 A
Maximum [Ie] rated operational current	2 A DC-13 24 V 158 °F (70 °C) IEC 60947-5-1/1991 2 A DC-13 24 V 158 °F (70 °C) VDE 0660 3 A AC-15 24 V 158 °F (70 °C) IEC 60947-5-1/1991 3 A AC-15 24 V 158 °F (70 °C) VDE 0660 0.1 A DC-13 250 V 158 °F (70 °C) IEC 60947-5-1/1991 0.1 A DC-13 250 V 158 °F (70 °C) VDE 0660

<b>Minimum switching capacity</b>	10 mA 12 V
<b>Input voltage</b>	110...240 V Y1
<b>Maximum switching current</b>	10 mA Y1)
<b>Input compatibility</b>	2-wire sensors DC with leakage current < 1 mA <164.04 ft (50 m) Y1
<b>Marking</b>	CE
<b>Overtoltage category</b>	III IEC 60664-1
<b>[Ui] rated insulation voltage</b>	250 V IEC 300 V CSA
<b>Supply disconnection value</b>	> 0.1 Uc
<b>Operating position</b>	Any position without derating
<b>Surge withstand</b>	2 kV IEC 61000-4-5 level 3
<b>Power consumption in VA</b>	1.8 VA 110 V 8.5 VA 240 V
<b>Terminal description</b>	(Y1)UNUSED (15-16-18)OC_ON (A1-A2)CO
<b>Height</b>	3.07 in (78 mm)
<b>Width</b>	0.89 in (22.5 mm)
<b>Depth</b>	3.15 in (80 mm)
<b>Net Weight</b>	0.24 lb(US) (0.11 kg)

## Environment

<b>Immunity to microbreaks</b>	3 ms
<b>Standards</b>	EN/IEC 61812-1
<b>Product Certifications</b>	UL GL CSA
<b>Ambient Air Temperature for Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature for Operation</b>	-4...140 °F (-20...60 °C)
<b>Relative humidity</b>	15...85 % 3K3 IEC 60721-3-3
<b>Vibration resistance</b>	0.35 mm 10...55 Hz)IEC 60068-2-6
<b>IP degree of protection</b>	IP20 terminals) IP50 casing)
<b>Pollution degree</b>	3 IEC 60664-1
<b>Dielectric test voltage</b>	2.5 kV
<b>Non-dissipating shock wave</b>	4.8 kV
<b>Resistance to electromagnetic fields</b>	9.14 V/m (10 V/m) IEC 61000-4-3 level 3
<b>Resistance to fast transients</b>	2 kV IEC 61000-4-4 level 3
<b>Disturbance radiated/ conducted</b>	CISPR 22 - class A CISPR 11 group 1 - class A

## Packing Units

<b>Unit Type of Package 1</b>	Db
<b>Number of Units in Package 1</b>	1

**Recommended replacement(s)**

RE8RA31FU is replaced by:

---

1x



Modular timing relay, Harmony, 8A, 1CO, 1s..100h, off delay, 24V DC 24...240V AC  
DC  
RE17RCMU

---