finder
SWITCH TO THE FUTURE

83.02 Ex

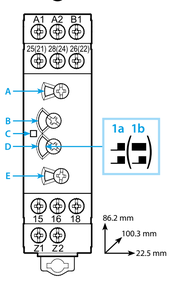
IECEx

83.02.0.240.0003 U_N (24...240)V AC (50/60 Hz) / DC U_{min} 16.8 V AC / DC U_{max} 265 V AC / DC P <= 2 VA / <= 2 W Limited current 100 mA	
2 CO (DPDT) 10 A 277 V AC	
AC (277 V AC) DC (32 V DC)	10 A 5 A
(–20...+55)°C	
IP20	

LED	U_N		
	–	15 - 18 25 - 28	15 - 16 25 - 26
	√	15 - 18 25 - 28	15 - 16 25 - 26
	√	⏲	15 - 16 25 - 26
	√	15 - 16 25 - 26	15 - 18 25 - 28

Utility Model - 88302V3XEX - 02/24 - Rev.0
Finder S.p.A. con unico socio - 10040 ALMESE (TO) - ITALY

❶



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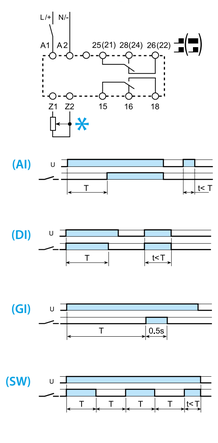
❸

3a



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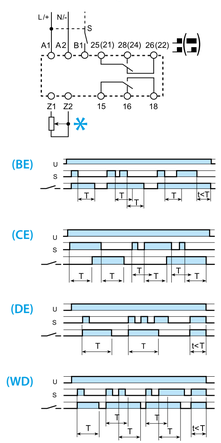

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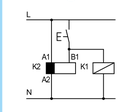

3d

3e

ENGLISH

83.02 MODULAR TIMER

❶ FRONT VIEW

A Time scale rotary selector
B Time setting
C LED
D Selector: - 2 timed contacts 1a
- 1 timed + 1 instantaneous contact 1b selector
E Function rotary selectori

❷ TIME SCALES

❸ WIRING DIAGRAM AND FUNCTIONS

(**WARNING**: the functions must be set before energising the timer)

3a **Start via contact on power supply (A1)**
- AI On-delay
- DI Interval
- GI Pulse-delayed
- SW Symmetrical flasher (starting pulse on)

3b **Start via contact into control terminal (B1)**
- BE Off-delay with control signal
- CE On- and off-delay with control signal
- DE Interval with control signal on
- WD Watchdog (Retriggerable interval with control signal on)

3c Possible to control an external load, such as another relay coil or timer, connected to the signal start terminal B1

3d With DC supply, positive polarity has to be connected to B1 terminal (according to EN 60204-1)

3e A voltage other than the supply voltage can be applied to the Start (B1) terminal, example:
A1-A2 = 230 V AC
B1-A2 = 24 V DC

✻ Potentiometer 10 kΩ / ≥0.25 W; IP66 (optional accessory)

OTHER DATA

Minimum control impulse: 50 ms
Recovery time: 200 ms
35 mm rail mount (EN 60715)

WORKING CONDITIONS

In conformity with the European Directive on EMC 2014/30/EU, this timer has a level of immunity, against radiated and conducted disturbances, considerably higher than requirements of EN 61812-1 standard. However, devices like transformers, motors, contactors, switches and power cables may cause disturbances and even damage the timer electronic circuit. For that reason, the wiring cables must be as short as possible, and, when necessary, the timer shall be protected by an appropriate RC network, varistor or surge protector.

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❹ MARKING

ATEX (UL 23 ATEX 3005 X):	II 3 G
IECEx (IECEx ULD 23.0013 X):	Ex ec nC IIC T4 Gc
Haz.Loc. (E497395):	CI I, Div2, Gr A, B, C, D, T4 CI I, Zn 2, AEx ec nC IIC T4 Ex ec nC IIC T4 Gc X
Specific marking of explosion protection	
II Component for surface plant (different from mines)	
3 Category 3: normal level of protection	
G - Cl I Explosive atmosphere due to presence of combustible gas vapour or mist	
Div 2 - Zn 2 Hazardous explosive concentration presence just in case of fault	
Ex ec - AEx ec Increased safety	
Ex nC - AEx nC Sealed device	
IIC - Gr A, B, C, D Gas group	
T4 Temperature class	
Gc Device protection level	
–20°C ≤ Ta ≤ +55°C Ambient temperature range	
UL 23 ATEX 3005 X - IECEx ULD 23.0013 X - E497395 UL - ULD: ID of the notified body which issues the type certificate 23: year of issue of the certificate 3005 - 0013: number of the type certificate E497395: UL file number X: special instruction for use	
Zyy: production batch identification Z: year, yy: week	

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❺ GENERAL SAFETY INFORMATION

These safety instructions refer to the installation, utilization and maintenance of 83 series timers to be used in potentially explosive areas due to the presence of combustible GAS.
The information of these instructions are only for qualified personnel.
The timers comply with the essential healthy and safety requirements applicable for ATEX, IECEx, HazLoc components, for potentially explosive atmospheres provided by the standards covered by the respective certificates.

❻ TRANSPORT, STORAGE

On receipt verify that the device has not been damaged during transport.
If damaged, do not install and immediately advise the transport service.

❼ INSTALLATION

Installation must comply with the rules of the standards IEC 60079-14 and EN 60079-14 or with the current national standards.
Before the installation in an explosive atmosphere, the installer must ensure that the relay is suitable for the classified area in consideration of the different inflammable substances present in the installation area (**please verify the marking on the product cover before installation**).
The relay must be installed only by qualified people with knowledge of electrical apparatus for explosive gas atmospheres and electrical installations in hazardous areas and has to be done with the relay and equipment at standstill, electrically dead.

❽ MAINTENANCE AND REPAIR

The user must not open, modify or repair this relay in any way.

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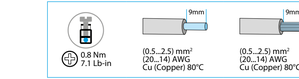
❾ SPECIFIC CONDITIONS OF USE

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1 and EN IEC 60664-1
- The equipment shall be installed in an end-equipment enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079- 0 and EN IEC 60079- 0 suitable for the applicable Gas Group, Temperature Classification and Ambient temperature range
- The equipment is suitable for use in Class I, Division 2, Groups A, B, C, D or non-hazardous locations only
- The equipment is an open-type-Pollution Degree 2 device and is to be installed in an enclosure suitable for the environment such that the equipment is only accessible with the use of a tool
- The equipment can be mounted in vertically and horizontally position
- The ambient temperature range is between –20°C and +55°C
- The temperature class is T4
- The equipment is field wiring
- Flexible, stranded or solid cable can be used



0.8 Nm
7.1 Lb-in

(0.5...2.5) mm²
(20...14) AWG
Cu (Copper) 80°C

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(20...14) AWG
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