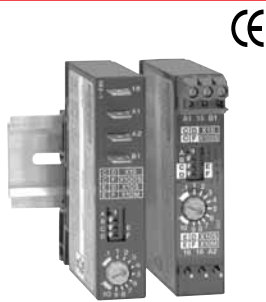


Knob Adjustable Universal Timer

ASQU/ASTU MicroTime

Timing Module

4



10
YEAR
WARRANTY

- 17.5 mm Package for High Rail Density
- Microprocessor Controlled with +/-1% Repeat Accuracy
- Multimode: 5 Selectable Functions
- Multirange: Knob Adjustable from 0.1 s ... 100 m
- Multivoltage: 24 ... 240 V AC or 9 ... 110 V DC
- 0.7 A Steady, 10 A Inrush Rated Solid State Output

Approvals:

Accessories



Female quick connect
P/Ns:
P1015-13 (AWG 10/12)
P1015-64 (AWG 14/16)
P1015-14 (AWG 18/22)

See accessory pages for specifications.

Description

The ASQU/ASTU Series of 17.5 mm, knob adjustable, universal solid state timers offer multiple functions, voltages, and time delay ranges. Choose one of 5 functions and 4 time delay ranges via 4 selection switches located on top of the unit. Adjustment through the time range is accomplished by an onboard knob.

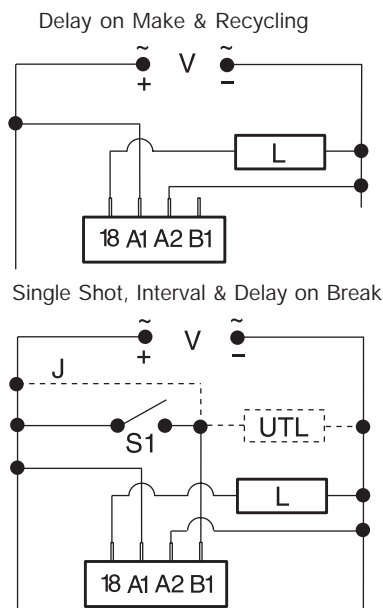
Adjustment

DOM	A <input type="checkbox"/> B <input type="checkbox"/>
SS	A <input type="checkbox"/> B <input type="checkbox"/>
R	A <input type="checkbox"/> B <input type="checkbox"/>
DOB	A <input type="checkbox"/> B <input type="checkbox"/>

R	M	S
0.1...10s	X1s	C <input type="checkbox"/> E <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/>
1...100s	X10s	C <input type="checkbox"/> E <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/>
10...1000s	X100s	C <input type="checkbox"/> E <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/>
1...100m	X10m	C <input type="checkbox"/> E <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/>

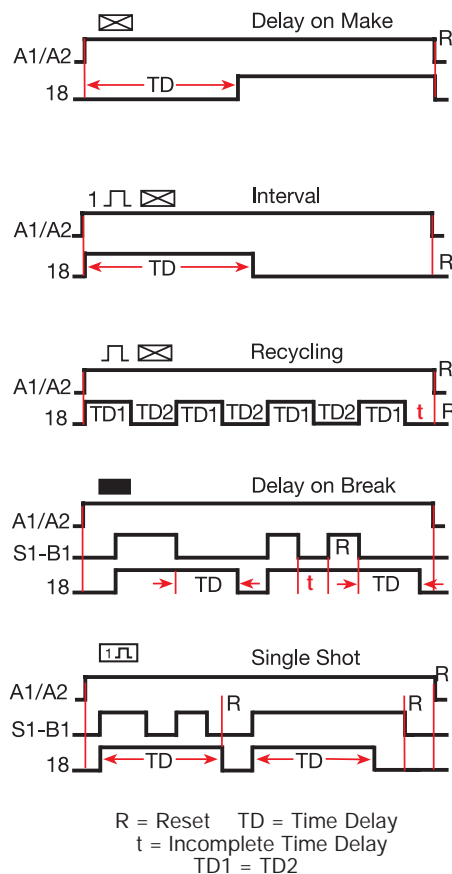
DOM = Delay On Make R = Range
SS = Single Shot/Interval M = Multiplier
R = Recycling S = Setting
DOB = Delay On Break

Connection



V = Voltage L = Load J = Wire Required for Interval Operation
S1 = Initiate Switch UTL = Optional Untimed Load

Function



Ordering Table

X
Series
- **ASQU** - Quick Connects
- **ASTU** - Terminal Blocks

X
Input
- **A** - Universal AC Voltage
(24 ... 240 V AC)
- **D** - Universal DC Voltage
(9 ... 110 V DC)

X
Base Adaptors
- **3** - Both - Surface & DIN Rail Adaptors,
with Quick Mount Fasteners

Example P/N: **ASQUA3**, **ASTUD3**

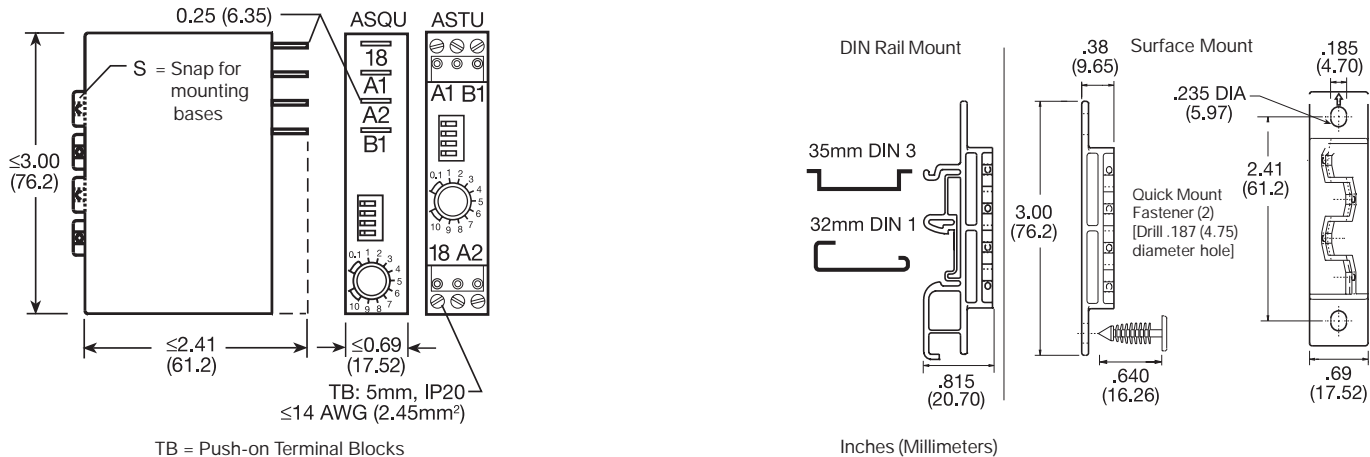
Knob Adjustable Universal Timer
ASQU/ASTU MicroTime
Timing Module

Technical Data

Time Delay Type Adjustment and Range*	Microcontroller based with ceramic resonator and watchdog circuitry Knob with dial; 2 switches select 1 of 4 multipliers x1s = 0.1 ... 10 s; x10s = 1 ... 100 s; x100s = 10 ... 1000 s; x10m = 1 ... 100 m +/-1%, or +/-50 ms, whichever is greater +/-2%, or +/-50 ms, whichever is greater ≤ 300 ms Single Shot & Delay on Break: ≤ 32 ms +/-2%, or +/-50 ms, whichever is greater
Repeat Accuracy Tolerance (Factory Calibration) Reset Time Initiate Time Time Delay vs. Temp. & Voltage	
Input Voltage	AC: 24 ... 240 V AC; -20% ... +10% DC: 9 ... 110 V DC; -0% ... +20% at -25°C 9.4 ... 110 V DC; -0% ... +20% at -40°C 50 ... 60 Hz ≤ 10%
AC Line Frequency DC Ripple	
Output Type Form Rating Voltage Drop	Solid state Normally Open 0.7 A steady state, 10 A inrush AC: ≅ 2.5 V at 0.7 A; DC: ≅ 1.5 V at 0.7 A
Protection Surge Circuitry Dielectric Breakdown Polarity	IEEE C62.41-1991 Level A Encapsulated ≥ 2000 V RMS terminals to mounting surface DC units are reverse polarity protected
Mechanical Mounting DIN Rail Surface Termination ASQU ASTU	Two base adaptors are available Snap on to 32 mm DIN 1 & 35 mm DIN 3 rail Two #6 (M3.5 x 0.6) screws or quick mount fasteners 0.25 in. (6.35 mm) male quick connect terminals 0.197 in. (5 mm) push-on terminal blocks for up to #14 AWG (2.5 mm ²) wire
Environmental Operating Temperature Storage Temperature Humidity Weight	-40°C ... +60°C -40°C ... +85°C 95% relative, non-condensing ≅ 4 oz (113 g)

*For CE approved applications, power must be removed from the unit when a switch position is changed.

Mechanical View



ASQUZB01 08.04.05