

SB 160
External resistor
adjustable

SB 160

- * Interval timer to 180 hours.
- * Start and reset of time and/or relay with contact.
- * External resistor adjustable.
- * Oscillator-controlled binary timing circuit.
- * Repeatability: $\pm 0.1\%$.
- * Connection for Digital Timer Control.
- * 10 A SPDT output relay.
- * LED-indication for relay on.
- * AC- or DC supply voltage.

SPECIFICATIONS

Common technical data and ordering key
Pages 10-12.

Time ranges

0.15	-	3 s
0.8	-	18 s
3	-	60 s
8	-	180 s
0.5	-	10 m
3	-	60 m
8	-	180 m
0.5	-	10 h
3	-	60 h
8	-	180 h

Range accuracy

+ 5% on max.
- 10% on min.

Repeatability
 $\pm 0.1\%$.

Max. time variation

Within the limits of rated supply voltage and ambient temperature:
 $\pm 1\%$.

Start of time and relay

Occurs by interconnecting pins 5 and 7.
24 VDC - 10 mA.
Pin 5 positive.
Pulse duration: Min 10 ms.

Reset of time

Occurs by interconnecting pins 6 and 7.
24 VDC - 10 mA.
Pin 6 positive.
Pulse duration: Min. 10 ms.

Time adjustment SB 160

External resistor or linear remote potentiometer R_T .
0-1 M Ω , 0.25 W.
The external resistor must be connected before the S-system will operate.

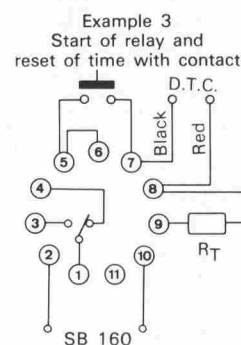
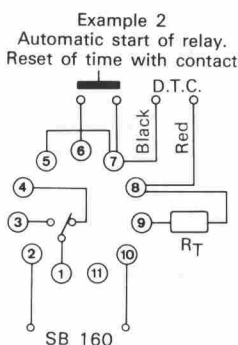
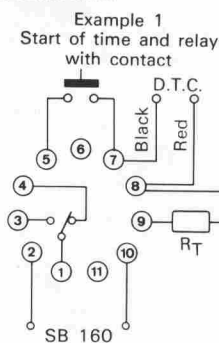
Accessories

Bases.
Hold down spring.
Mounting rack.
Base covers.
Front mounting bezel.
Remote potentiometer kit.

Digital Timer Control

Connection for Digital Timer Control (D.T.C.) between pins 7 and 8.
Pin 8 positive.
See catalogue on accessories.

WIRING DIAGRAMS



MODE OF OPERATION

Example 1

The supply voltage must be constantly applied.
When pins 5 and 7 are interconnected, the relay will operate and the timing period start. When the set period has elapsed the relay will release whether pins 5 and 7 are still interconnected or not.

Example 2

When the supply voltage is connected the relay will operate and the timing period start. When the period has elapsed the relay will release.
The sequence can be repeated by disconnecting the supply voltage for min. 100 ms.
By interconnecting pins 6 and 7 before the set time has expired, the time is reset to zero, and the timing period restarts when pins 6 and 7 are disconnected.
Do not forget constant interconnection of pins 5 and 7.

Example 3

The supply voltage must be constantly connected.
By interconnecting pins 5 and 7 (pins 5 and 6 must be constantly interconnected) the relay will operate.
When pins 5 and 7 are disconnected the timing period starts, and when the period has elapsed the relay will release. If pins 5 and 7 are interconnected before the delay period has expired the time is zero-set, and a new full timing period starts when the interconnection between pins 5 and 7 is interrupted.

OPERATION DIAGRAM

