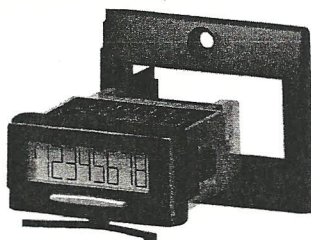




Keep you in control

CE **UL** US

7111, 7111HV, 7111QUAD



8 Digit Totalising Counter

8-Stelliger Summenzähler

Compteur Totalisateur à 8 chiffres

Contador totalizador de 8 Dígitos

Contatore Totalizzatore ad 8 cifre

7511, 7511HV

8 Digit Timer

8-stelliger Zeitzähler

Compteur horaire à 8 chiffres

Temporizador de 8 dígitos

Timer ad 8 cifre



WARNING

THIS UNIT CONTAINS A LITHIUM BATTERY AND MUST NOT BE DISPOSED OF IN A FIRE OR EXPOSED TO TEMPERATURES BELOW -20°C OR ABOVE $+70^{\circ}\text{C}$.

Any signal cables connected to this device must not exceed 30 metres in length.

If signal cables are installed that are routed outside the building, it will be necessary to install additional surge protection devices.

ACHTUNG:

IESES GERÄT ENTHÄLT EINE LITHIUMBATTERIE UND DARF DAHER I DER ENTSORGUNG NICHT VERBRANNT ODER TEMPERATUREN UNTER -20°C ODER ÜBER $+70^{\circ}\text{C}$ AUSGESETZT WERDEN.

Die Signalleitungen, die an dieses Gerät angeschlossen werden, dürfen eine Gesamtlänge von 30m nicht überschreiten.

Für den Fall, dass die Signalleitungen außerhalb von Gebäuden verlegt, müssen zusätzliche Schutzmaßnahmen gegen Surge Störimpulse vorgesehen werden.

RECOMMANDATION IMPORTANTE:

ET APPAREIL CONTIENT UNE PILE AU LITHIUM ET NE DOIT PAS ETRE EXPOSE DANS UN FEU OU EXPOSE A DES TEMPERATURES INFERIEURES -20°C OU SUPERIEURES A $+70^{\circ}\text{C}$.

La longueur de tout câble mesure (signal) raccordé à cet appareil ne doit pas excéder 30 mètres.

Si les câbles « mesure » passent à l'extérieur du bâtiment, il est nécessaire d'installer des dispositifs additionnels de protections de surtensions.

ATENCIÓN:

ESTA UNIDAD CONTIENE UNA BATERIA DE LITIO QUE NO DEBE SER EXPOSTA CERCA DEL FUEGO NI EXPUESTA A TEMPERATURAS FUERA DEL RANGO DE -20°C A $+70^{\circ}\text{C}$.

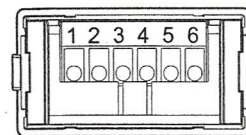
Cualquier cable de señal conectado a esta unidad no debe de exceder de 30 metros.

Si se instalan cables de señal que sean llevados fuera del edificio, será necesario instalar unidades adicionales de protección de onda.

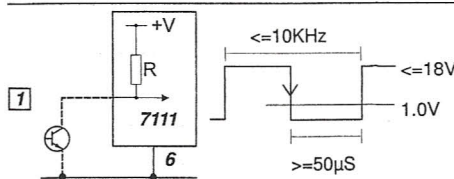
ATTENZIONE:

Questa unità contiene una batteria al litio e pertanto non deve essere smaltita mediante combustione o esposta a temperature inferiori a -20°C o superiori a $+70^{\circ}\text{C}$.

Qualsiasi cavo di segnale collegato a questo dispositivo non può essere più lungo di 30 metri.

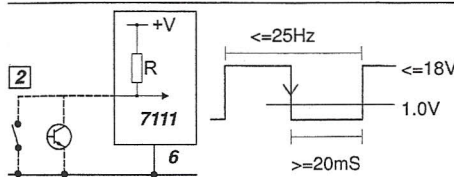


- 1 High Speed Count Input
- 2 Low Speed Count Input
- 3 External Reset Input
- 4 Direction Input
- 5 External power for backlight
- 6 0V, Common



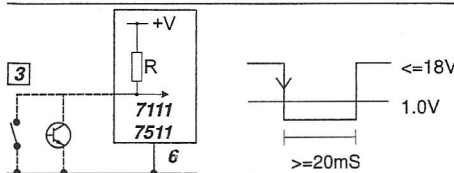
High Speed Count Input

- sink signal (NPN)
- R = internal resistor $3.3\text{M}\Omega$
- maximum 18V, threshold 1V
- negative edge trigger
- maximum 10KHz, minimum 50µS



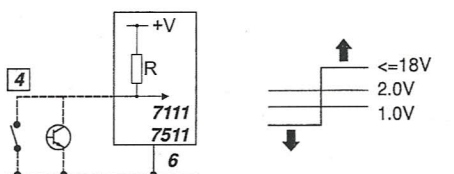
Low Speed Count Input

- sink signal (NPN) or contact closure
- R = internal resistor $3.3\text{M}\Omega$
- maximum 18V, threshold 1V
- negative edge trigger
- maximum 25Hz, minimum 20mS



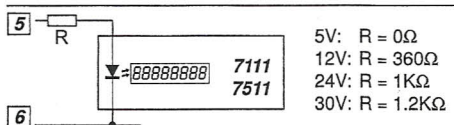
External Reset Input

- sink signal (NPN) or contact closure
- R = internal resistor $3.3\text{M}\Omega$
- maximum 18V, threshold 1V
- negative edge trigger
- minimum 20mS



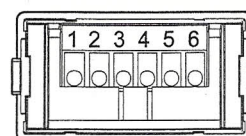
Direction Input

- sink signal (NPN) or contact closure
- R = internal resistor $3.3\text{M}\Omega$
- Up: not connected or $>2\text{V}$ (logic 1), maximum 18V
- Down: connected to common or $<1\text{V}$ (logic 0)
- Direction signal must change $>5\mu\text{s}$ before Count signal

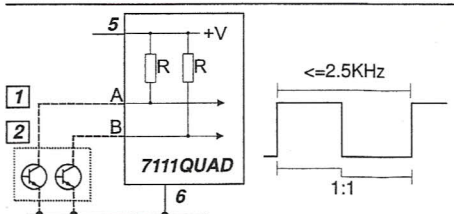


External Supply for backlight

- 5V DC $\pm 0.5\text{V}$ @ 20mA
- R = external resistor: see table next to diagram



- 1 Count Input A
- 2 Count Input B
- 3 External Reset Input
- 4 unused
- 5 External power for backlight and input circuit
- 6 0V, Common



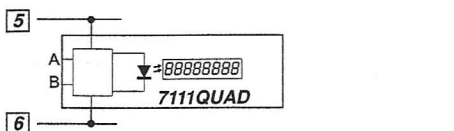
Count Inputs A & B

- sink signals (NPN) or push-pull signals, NOT source only
- R = internal resistor $3.3\text{M}\Omega$
- maximum: +V
- maximum 2.5KHz
- mark to space ratio 1:1



External Reset Input

- see 7111, above



External Supply for backlight and input circuit

- 10-30V DC @ 30mA max
- no external resistor necessary

7111, 7111HV, 7111QUAD: Co



* Front panel reset enabled