trumeter
innovation by design



7400AS
7401AS

c UL us CE

8 digit Low Power Bi-directional Totalising Counters English Page 2

8-Stelliger Bi-Direktionaler Summenzähler mit niedrigem Stomverbrauch Deutsch Seite 3

Compteur Totalisateur Bidirectionnel à 8 Chiffres, Faible Consommation Français Page 4

Contador Totalizador Bidireccional, de 8 dígitos de bajo consumo Español Página 5

Contatore Totalizzatore ad 8 Cifre Bidirezionale, a basso consumo Italiano Pagina 6

Higher Voltage Power Supply,
Anschluß an Versorgungsspannung >3.4V,
Tension d'alimentation DC plus élevée,
Alimentación con tensiones superiores a los 3.4V CC,
Alimentazione in corrente continua a più alta tensione
Dimensions, Abmessungen, Dimensiones, Dimensioni
Page 7,8
Seite 7,8
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017532-01 Issue 4.1 05/16

Specification

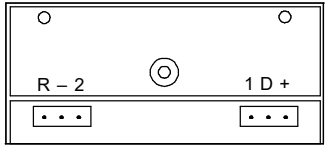
Supply
2.6 - 3.4VDC
Current consumption
<10µA, 5µA typical.
Reset Button
The 7400 has a Reset Button.
The 7401 is non-resettable.
Display
8 digit black LCD, 8mm characters
Count Range
99999999 - rollover to 0

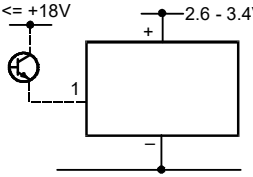
Operating temperature
-10°C to +60°C
Storage temperature
-20°C to +60°C
Altitude
Up to 2000m
Relative Humidity
80% max up to 31°C, decreasing to 50% max at 40°C

Note:
This product is ideally suited to battery powered applications. Should the product be used in a circuit where an external power source is used, then the complete system will require separate approval to meet the CE standards.

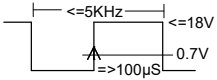
Connections

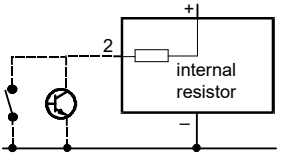
This product can be powered from a higher voltage DC supply using the external voltage control circuit shown on page 7.





High Speed Count (TTL/CMOS)





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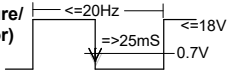
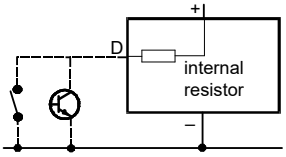
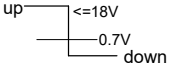
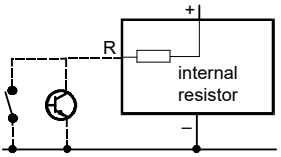


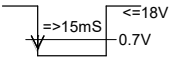


Direction (TTL/CMOS)





External Reset (Contact Closure/ Open Collector)



Spezifikation

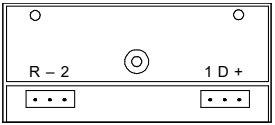
Versorgung
2.6 - 3.4VDC
Stromaufnahme
<10µA, 5µA typisch.
Rückstelltaste
Das Modell 7400 hat eine Rückstelltaste
Das Modell 7401 hat keine.
Anzeige
8 stelliges schwarzes LCD
Zeichenhöhe 8 mm

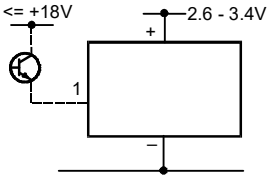
Zählbereich
99999999 - Überlauf 0
Betriebstemperatur
-10°C bis +60°C
Lagerungstemperatur
-20°C bis +60°C
Höhe
Bis zu 2.000 m
Relative Feuchte
Max. 80% bis zu 31°C, Abnahme auf 50% bei max. 40°C

Hinweis:
Dieses Produkt eignet sich optimal für Anwendungen mit Batteriebetrieb. Wenn das Produkt innerhalb einer Schaltung mit externer Spannungsquelle (Netzbetrieb) eingesetzt wird, ist für das vollständige System die Einhaltung der Niederspannungsrichtlinie, sowie der CE-Normen erforderlich.

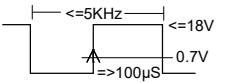
Anschlüsse

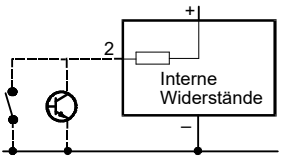
Dieses Produkt kann mit einer höheren externen Gleichspannung betrieben werden, bitte beachten Sie dabei die Hinweise auf Seite 7.



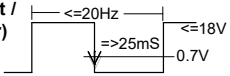


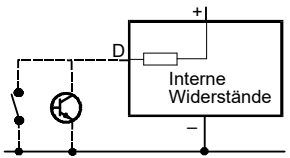
Elektronischer Zähleingang (TTL/CMOS)



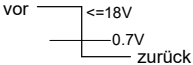


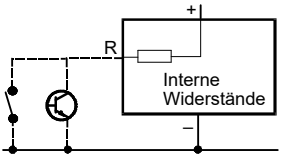
Langsame Zähleingang (Schließkontakt / Open Collector)



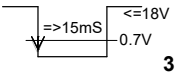


Zählrichtung (TTL/CMOS)





Externe Rücksetzung (Schließkontakt / Open Collector)



Caractéristiques

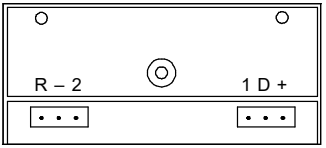
Alimentation
2.6 - 3.4VCC
Consommation de courant
<10µA, 5µA moyenne.
Poussoir de RAZ
Le 7400 a un poussoir de RAZ
Le 7401 n'en a pas.
Affichage
à cristaux liquides noirs 8 chiffres, caractères 8 mm

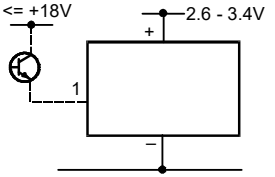
Plage de comptage
de 0 à 999999 - décroissant jusqu'à 0
Température de fonctionnement
de -10°C à +60°C
Température de stockage
de -20°C à +60°C
Altitude
Jusqu'à 2000m
Humidité relative
80% max jusqu'à 31°C ; 50% max à 40°C

Remarque:
Ce produit est idéal pour les applications alimentées par batteries. Dans le cas où ce produit serait susceptible d'être inclus dans un circuit utilisant une source d'alimentation externe, l'intégralité du système devra alors recevoir l'agrément des normes CE.

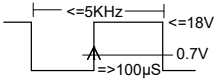
Raccordements

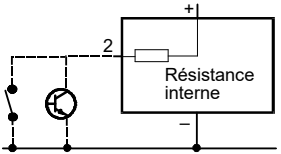
La tension d'alimentation de ce produit peut être augmentée à l'aide du circuit externe décrit à la page 7.



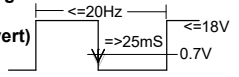


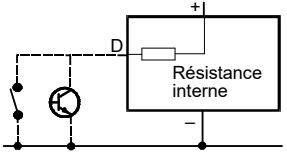
Entrée Comptage haute vitesse (TTL/CMOS)



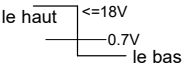


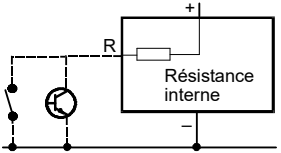
Entrée Comptage basse vitesse (Contact sec / Collecteur ouvert)



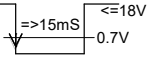


Sens Comptage (TTL/CMOS)





RAZ Externe (Contact sec / Collecteur ouvert)



Especificaciones

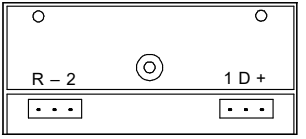
Alimentación
2.6 - 3.4VCC
Consumo de corriente
< 10µA, típico 5µA
Pulsador de Reset
El 7400 tiene un pulsador de Reset
El 7401 no lo tiene.
Pantalla
LCD de 8 dígitos negros, caracteres de 8mm de altura

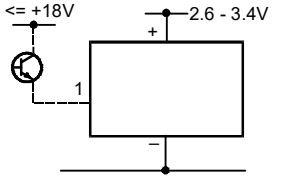
Rango de conteo
0 - 99999999 (vuelve a 0)
Temperatura de operación
-10°C a +60°C
Temperatura de almacenaje
-20°C a +60°C
Altitud
Hasta 2000m
Humedad Relativa
80% máx. hasta 31°C, disminuyendo al 50% máx. a 40°C

Nota:
Este producto es ideal para aplicaciones con alimentación de batería. En el caso que el producto sea utilizado en un circuito alimentado por una fuente de alimentación externa, entonces el sistema completo requerirá una aprobación separada para cumplir con las normas CE.

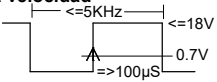
Conexiones

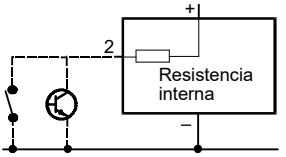
Este producto puede alimentarse con tensiones superiores a los 3.4V CC a través del circuito externo mostrado en la página 7.



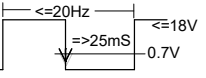


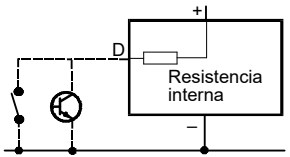
Conteo de alta velocidad (TTL/CMOS)



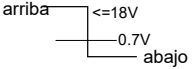


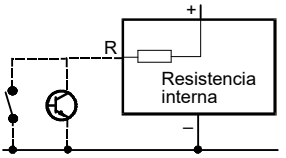
Conteo de baja velocidad (Cierre por contacto / colector abierto)



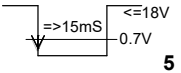


Dirección (TTL/CMOS)





Reset externo (Cierre por contacto / colector abierto)



Specifiche

Alimentazione
2.6 - 3.4VCC

Corrente assorbita
<10µA, di norma 5µA

Pulsador de Reset
Il 7400 ha un pulsador de reset.
Il 7401 no.

Display
a cristalli liquidi nero a 8 cifre, caratteri da 8mm

Gamme di conteggio
99999999 – ritorno a 0

Temperatura di funzionamento
da -10°C a +60°C

Temperatura di immagazzinamento
da -20°C a +60°C

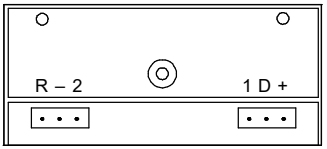
Altitudine
Fino a 2000m

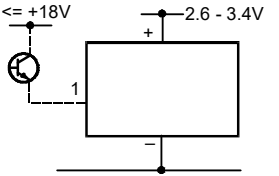
Umidità Relativa
Max 80% fino a 31°C, a scendere fino al 50% max. a 40°C

Nota:
Questo prodotto è ideale per applicazioni alimentate a batteria. Se il prodotto dovesse essere utilizzato in un circuito collegato ad una fonte di alimentazione esterna, il sistema completo richiederà una omologazione separata a norma CE.

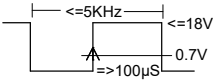
Collegamenti

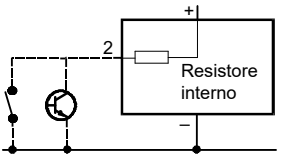
Questo prodotto può essere alimentato con una corrente continua a più alta tensione attraverso il circuito di controllo tensione esterno illustrato a pag. 7.



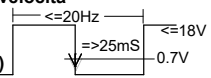


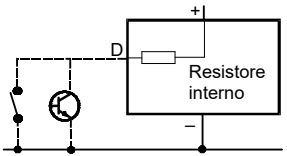
Conteggio alta velocità (TTL/CMOS)



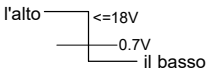


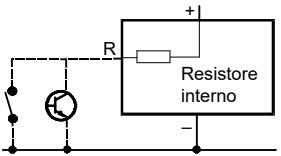
Conteggio bassa velocità (Collettore chiusura / Apertura contatto)



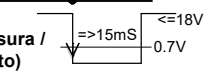


Direzione (TTL/CMOS)

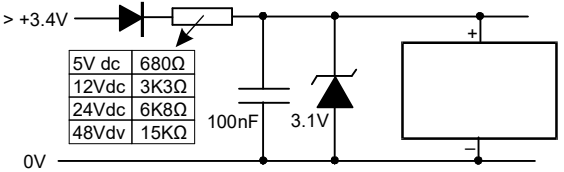




Reset esterno (Collettore chiusura / Apertura contatto)



Higher Voltage Power Supply,
Anschluß an Versorgungsspannung >3.4V,
Tension d'alimentation DC plus élevée,
Circuito auxiliar para tensiones de alimentación mayores a 3.4V CC,
Alimentazione in corrente continua a più alta tensione



Please note:

Signal cables connected to this device must not exceed 30 metres in length. It will be necessary to install additional surge protection devices if signal cables are installed and routed outside the building.

Bitte beachten Sie folgendes:

Die Signalleitungen, die an dieses Gerät angeschlossen werden, dürfen eine Gesamtlänge von 30m nicht überschreiten.
Werden Signalleitungen außerhalb von Gebäuden verlegt, müssen zusätzliche Schutzmaßnahmen gegen Surge Störimpulse vorgesehen werden.

Veuillez noter :

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.

Preghiamo Notare:

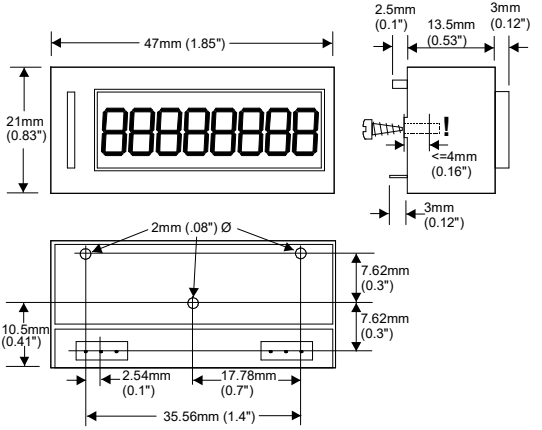
Ogni cavo di segnale collegato a questo dispusitivo non puo essere piu lungo di 30 metri
Se i cavi di segnale sono installati su un percorso esterno all'edificio, è necessario installare dispositivi di protezione di rete addizionali.

Nota:

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, sera necesario instalar unidadesadicionales de protección de onda.

Dimensions, Abmessungen, Dimensiones, Dimensioni



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