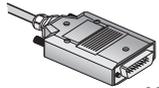


U_{aS}: Störungssignal
Fault detection signal
Signal de perturbation
Segnale di malfunzionamento
Señal de avería

U_{aS} = High: ✓

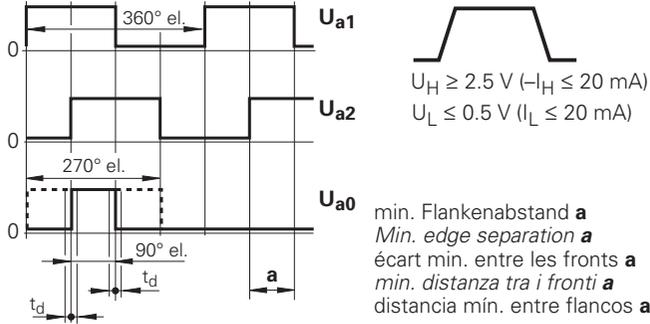
U_{aS} = Low: ⚠

TTL

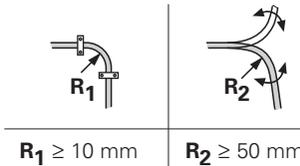
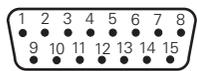


U_{a1}, U_{a2}, U_{a0}
U_{a1}, U_{a2}, U_{a0}, U_{aS}

t_d ≤ 20 ns

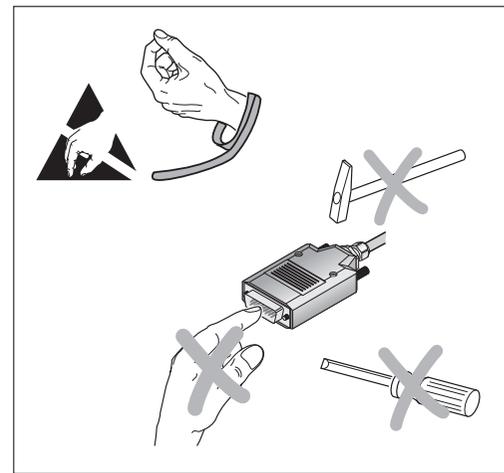


Außenschirm mit Gehäuse verbunden
External shield connected to housing
Blindage extérieur connecté au boîtier
Schermo del cavo collegato alla carcassa
Apantallado exterior unido a la carcasa



1	9	3	11	14	7	4	2	12	10	13	15	8	6	5
U _{a1}	U _{a1}	U _{a2}	U _{a2}	U _{a0}	U _{a0}	U _p	0V	Sensor U _p	Sensor 0V	U _{aS}	1)	LIMITS	LIMITS	/

1) Im Normalbetrieb mit 0 V der Folgeelektronik verbinden.
Bei Anlegen von 5 V Umschaltung TTL/11 µA_{SS}.
In normal operation, connect with the 0 V line of the subsequent electronics.
Apply 5 V and switch to TTL/11 µA_{PP}.
En fonctionnement normal, relier au 0 V de l'électronique consécutive.
Avec application de 5 V commutation TTL/11 µA_{CC}.
In funzionamento normale collegare con 0 V alla elettronica successiva.
Per applicare 5 V commutazione TTL/11 µA_{SS}.
En funcionamiento normal conectar con 0 V de la electrónica subsiguiente.
Al aplicar 5 V conmutación TTL/11 µA_{PP}.



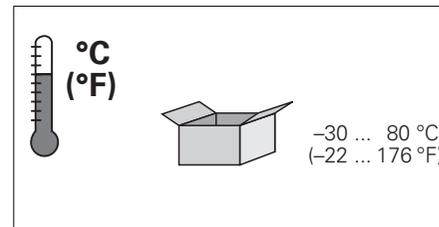
HEIDENHAIN

Montageanleitung
Mounting Instructions
Instructions de montage
Istruzioni di montaggio
Instrucciones de montaje

APE 371

nur gültig für
Valid only for
Valable seulement pour
Valido solo per
Válido sólo para

ID 591765-14
ID 591765-31
ID 591765-32
ID 591765-34
ID 591765-36
ID 591765-5x
ID 591765-7x



7/2013



Achtung: Die Montage und Inbetriebnahme ist von einer qualifizierten Fachkraft unter Beachtung der örtlichen Sicherheitsvorschriften vorzunehmen.
Die Steckverbindung darf nur spannungsfrei verbunden oder gelöst werden.

Note: Mounting and commissioning is to be conducted by a qualified specialist under compliance with local safety regulations.
Do not engage or disengage any connections while under power.

Attention: Le montage et la mise en service doivent être assurés par un personnel qualifié dans le respect des consignes de sécurité locales.
Le connecteur ne doit être connecté ou déconnecté qu'hors potentiel.

Attenzione: Il montaggio e la messa in funzione devono essere eseguite da personale qualificato nel rispetto delle norme di sicurezza locali.
I cavi possono essere collegati o scollegati solo in assenza di tensione.

Atención: El montaje y la puesta en marcha deben ser realizados por un especialista cualificado, observando las prescripciones locales de seguridad.
Conectar o desconectar el conector sólo en ausencia de tensión.

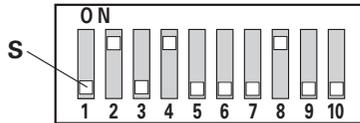
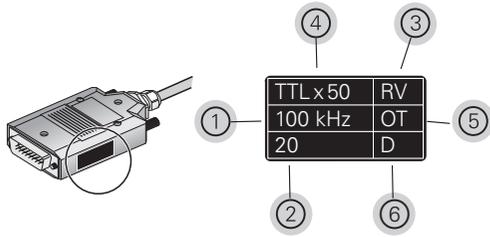
DR. JOHANNES HEIDENHAIN GmbH

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S1, S10 = reserviert (immer auf off)
Reserved (always set to off)
 Réservé (toujours sur off)
 Riservato (sempre su off)
 Reservado (siempre en off)

Referenzimpuls-Breite <i>Reference pulse width</i> Largeur impulsion de référence <i>Ampiezza impulso di riferimento</i> Ancho del impulso de referencia	③
R3: 270°	on
RV: 90°	off

min. Flankenabstand **a**
Min. edge separation a
 écart min. entre les fronts **a**
 min. distanza tra i fronti **a**
 distancia mín. entre flancos **a**

max. Eingangs-Frequenz, Toleranz ±5 %
Max. input frequency, tolerance ±5%
 fréquence d'entrée max., tolérance ±5 %
 max frequenza ingresso, Tolleranza ±5 %
 frecuencia máx. de entrada, tolerancia ±5 %

②	S6	S7	S8	①				
				TTL x 20	TTL x 25	TTL x 50	TTL x 100	
16	0.050 µs	off	off	off	200 kHz	160 kHz	80 kHz	40 kHz
	0.100 µs	off	off	on	100 kHz	80 kHz	40 kHz	20 kHz
	0.220 µs	off	on	off	50 kHz	40 kHz	20 kHz	10 kHz
	0.345 µs	off	on	on	33 kHz	26 kHz	13 kHz	6.6 kHz
	0.465 µs	on	off	off	25 kHz	20 kHz	10 kHz	5 kHz
	0.585 µs	on	off	on	20 kHz	16 kHz	8 kHz	4 kHz
	0.950 µs	on	on	off	12.5 kHz	10 kHz	5 kHz	2.5 kHz
	1.925 µs	on	on	on	6.25 kHz	5 kHz	2.5 kHz	1.25 kHz
20	0.040 µs	off	off	off	250 kHz	200 kHz	100 kHz	50 kHz
	0.080 µs	off	off	on	125 kHz	100 kHz	50 kHz	25 kHz
	0.175 µs	off	on	off	62.5 kHz	50 kHz	25 kHz	12.50 kHz
	0.275 µs	off	on	on	41.67 kHz	33.33 kHz	16.67 kHz	8.33 kHz
	0.370 µs	on	off	off	31.25 kHz	25 kHz	12.50 kHz	6.25 kHz
	0.465 µs	on	off	on	25 kHz	20 kHz	10 kHz	5 kHz
	0.760 µs	on	on	off	15.63 kHz	12.5 kHz	6.25 kHz	3.13 kHz
	1.540 µs	on	on	on	7.81 kHz	6.25 kHz	3.13 kHz	1.56 kHz

Interpolation <i>Interpolation</i> Interpolation <i>Interpolazione</i> Interpolación	④
TTL x 20	S3 S4
TTL x 25	off on
TTL x 50	on off
TTL x 100	on on

⑤	U_{a1}, U_{a1}, U_{a2}, U_{a2}, > U_{aS} = low	S5
MT: hochohmig (Three State) <i>High impedance (three-state)</i> à haute impédance (tristate) <i>alta impedenza (tristate)</i> alta impedancia (Three State)		on
OT: nicht hochohmig <i>Low impedance</i> à basse impédance <i>bassa impedenza</i> sin alta impedancia		off

⑥	Limits	S9
D: aktiviert <i>Activated</i> activé <i>attivo</i> activado		on
K: nicht aktiviert <i>Not activated</i> non activé <i>non attivato</i> no activado		off

