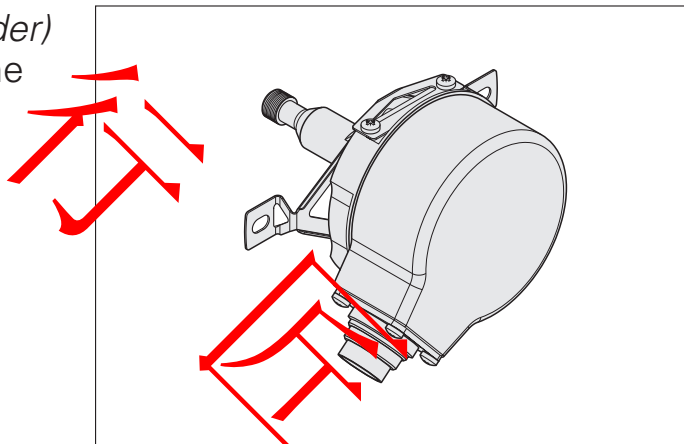


SIEMENS

Drehimpulsgeber
Rotary pulse encoder
Codeur rotatif d'impulsion
Emisor de impulsos (encoder)
Encoder impulsi di rotazione
Momentgevare

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

1XP8001-1
1XP8001-2



1/2005

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Bestell - Nr. / Order No. : 517.30777.30

DEUTSCH / ENGLISH / FRANÇAIS / ESPAÑOL / ITALIANO / SVENSK



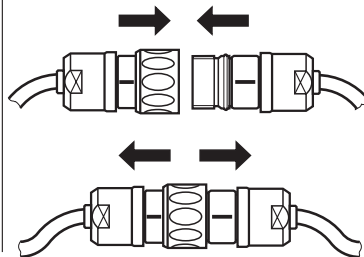
Maße in mm
Dimensions in mm
Cotes en mm
Dimensioni in mm
Dimensiones en mm
Dimensioner i mm



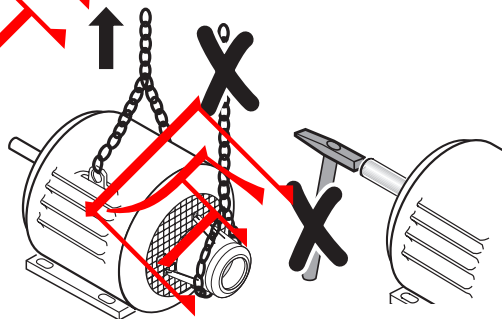
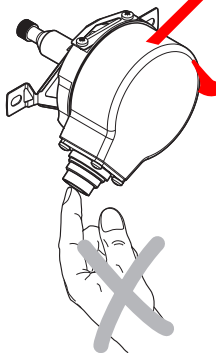
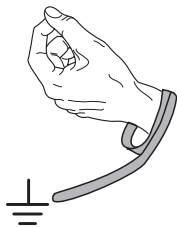
1.

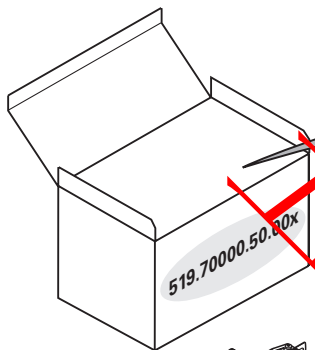


2.

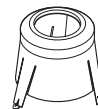
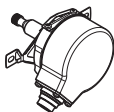


DIN EN 100 015 - 1
CECC 00015 - 1





Z = Strichzahl
 Line count
 Nombre de traits
 Numero de impulsos
 Numero di impulsi
 Polser

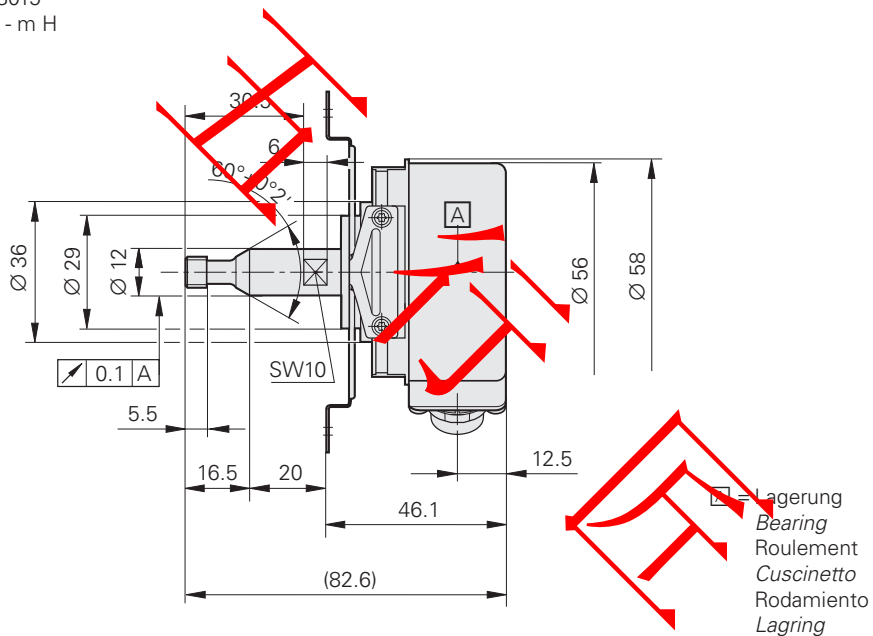


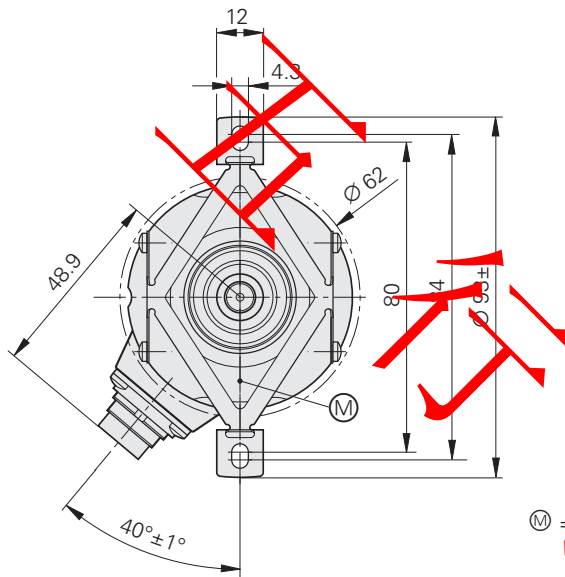
519.70000.50.001	1XP8001-1	1024	839.40000.01	839.40001.01	—	517.30777.30
519.70000.50.002	1XP8001-1	1024	—	839.40001.02	—	517.30777.30
519.70000.50.003	1XP8001-2	1024	839.40000.01	839.40001.01	099.20586.01	517.30777.30
519.70000.50.004	1XP8001-1	1024	839.40000.01	839.40001.01	099.20586.01	517.30777.30
519.70000.50.005	1XP8001-1	2048	839.40000.01	839.40001.01	099.20586.01	517.30777.30
519.70000.50.006	1XP8001-1	2048	—	839.40001.02	—	517.30777.30
519.70000.50.007	1XP8001-2	1024	—	839.40001.02	—	517.30777.30

mm



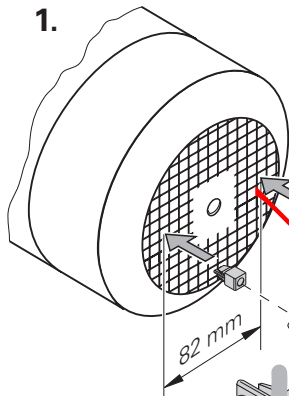
DIN ISO 8015
ISO 2768 - m H





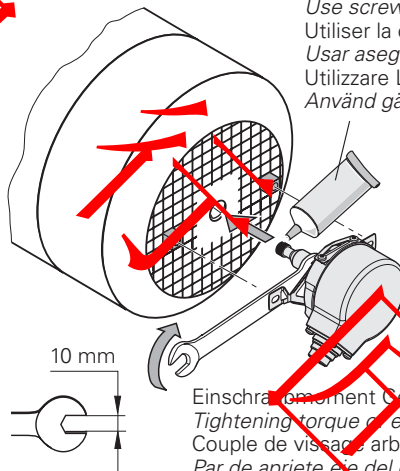
Ⓜ = Messpunkt Arbeitstemperatur
Measuring point for operating temperature
Point de mesure température de travail
Punto di misura – temperatura di esercizio
Punto de medición de la temperatura de trabajo
Mät punkt för arbetstemperatur

1.



Motorenwellenkonus und Innen-Gewinde reinigen
Clean the motor shaft taper and the internal thread
Nettoyer le cône de l'arbre du moteur et le filetage interne
Limpia el cono del eje del motor y la rosca interna
Pulire il cono ricavato sull'albero motore e la filettatura interna
Rengör motoraxelkona och invändig gänga

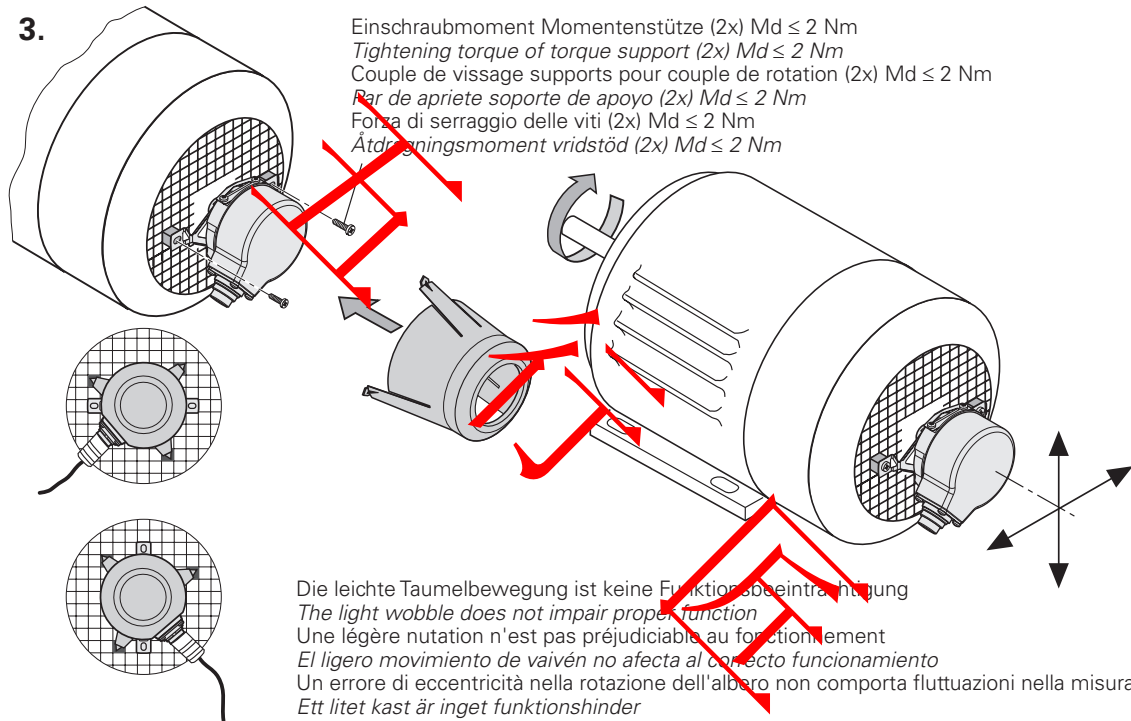
2.



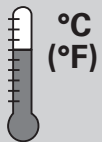
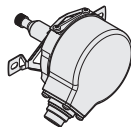
Gewindesicherung Loctite 243 verwenden
Use screw retaining compound Loctite 243
Utiliser la colle de filetage Loctite 243
Usar asegurador de tornillo Loctite 243
Utilizzare Loctite 243 sulla filettatura di fissaggio
Använd gänglåsning Loctite 243

Einschraubmoment Geberwelle $M_d \leq 7..9 \text{ Nm}$
Tightening torque of encoder shaft $M_d \leq 7..9 \text{ Nm}$
Couple de vissage arbre moteur $M_d \leq 7..9 \text{ Nm}$
Par de apriete eje del encoder $M_d \leq 7..9 \text{ Nm}$
Forza di serraggio dell'albero dell'encoder $M_d \leq 7..9 \text{ Nm}$
Åtdragningsmoment givaraxel $M_d \leq 7..9 \text{ Nm}$

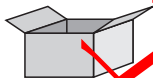
3.



UL certification
File no. E197018

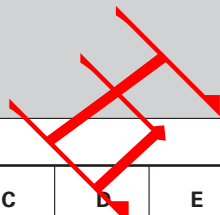
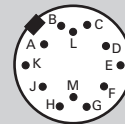
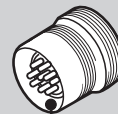


°C
(°F)

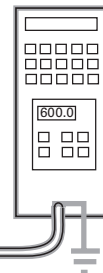
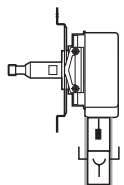
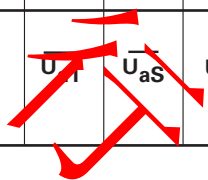


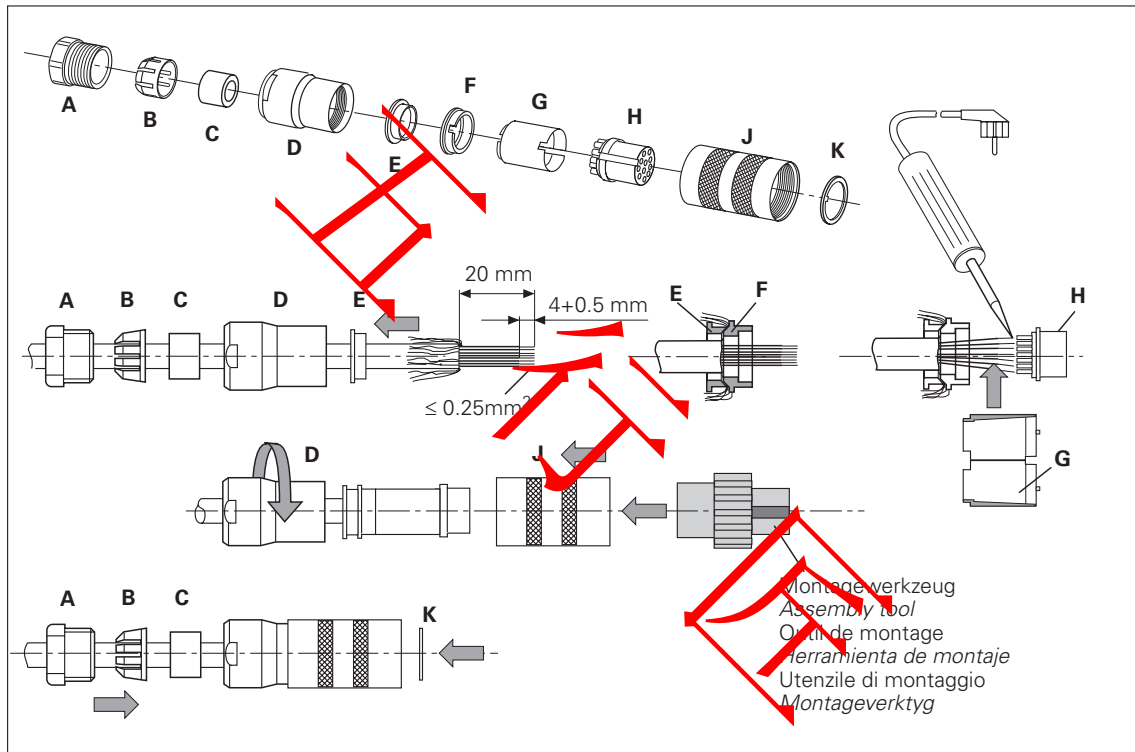
0 ... 80 °C
(-40 ... 176 °F)

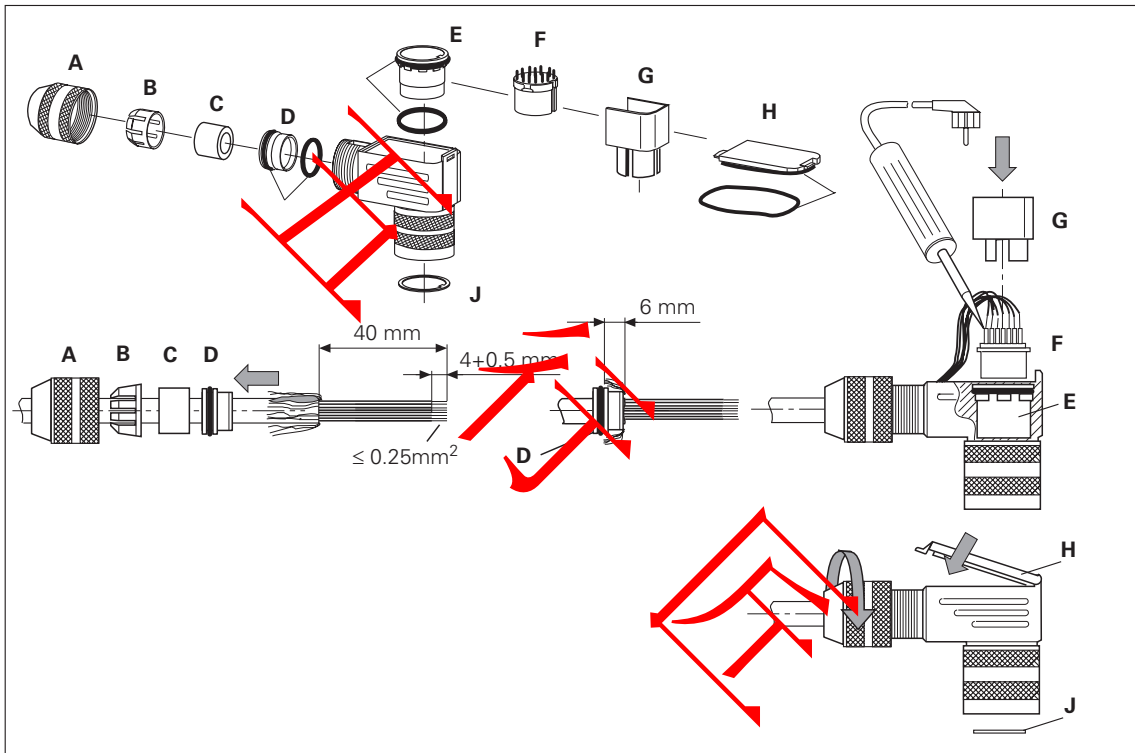
1XP8001-1 / $U_P = 10 \dots 30 \text{ V}$
 1XP8001-2 / $U_P = 5 \text{ V} \pm 10 \%$



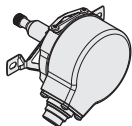
A	B	C	D	E	F	G	H	Schirm Shield Blindage Blindaje Schermo Skärm	K	L	M
\overline{U}_{a2}	U_P	U_{a0}	\overline{U}_{a0}	U_{a1}	\overline{U}_T	\overline{U}_{aS}	U_{a2}		0V	0V	U_P







1XP8001-1



$L \leq 200 \text{ m}$ $U_p = 12.75 \dots 15.75 \text{ V}$ (max. 200 mA, U_{a1} , U_{a2} , U_{a0} , $\overline{U_{aS}}$)

$L \leq 300 \text{ m}$ $U_p = 10 \dots 30 \text{ V}$ (max. 350 mA, $\frac{U_{a1}}{U_{a1}}$, $\frac{U_{a2}}{U_{a2}}$, $\frac{U_{a0}}{U_{a0}}$, $\overline{U_{aS}}$)



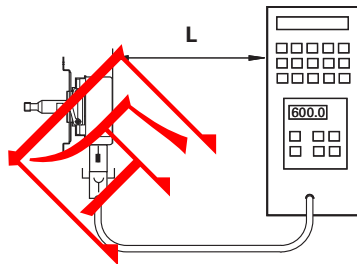
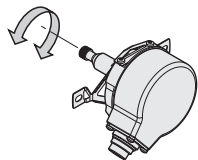
EN 50 178/4.98; 5.2.9.5

IEC 364-4-41: 1992; 411(PELV/SELV)

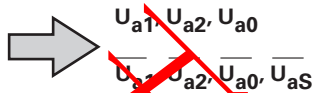
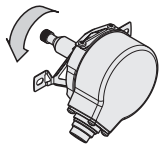
$$n [\text{min}^{-1}] \leq \frac{f_{\text{max}} [\text{kHz}]}{Z} \cdot 10^3 \cdot 60 \text{ min}^{-1} \begin{cases} L \leq 100 \text{ m } f_{\text{max}} \leq 160 \text{ kHz } (U_{a1}, U_{a2}, U_{a0}, \overline{U_{aS}}) \\ L \leq 200 \text{ m } f_{\text{max}} \leq 120 \text{ kHz } (U_{a1}, U_{a2}, U_{a0}, \overline{U_{aS}}) \\ L \leq 300 \text{ m } f_{\text{max}} \leq 160 \text{ kHz } (U_{a1}, U_{a2}, U_{a0}, \overline{U_{a1}}, \overline{U_{a2}}, \overline{U_{a0}}, \overline{U_{aS}}) \end{cases}$$

Z = Strichzahl
 Line count
 Nombre de traits
 Numero de impulsos
 Numero di impulsi
 Polser

f_{max} = Abtastfrequenz
 Scanning frequency
 Fréquence de balayage
 Frequenza di scansione
 Frecuencia de captación
 Avkänningsfrekvens

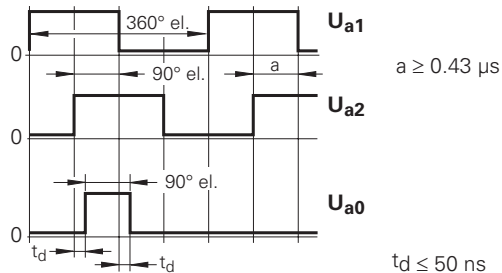


1XP8001-1



Strichzahl
 Line count
 Nombre de traits
 Numero de impulsos
 Numero di impulsi
 Polser

1024

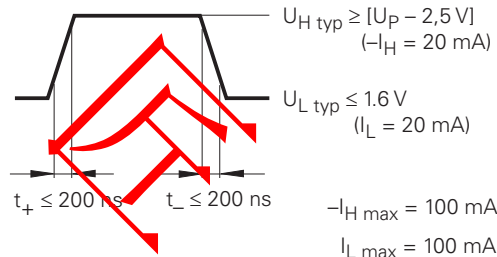


$\overline{U_{aS}}$: Störungssignal
 Fault detection signal
 Signal de perturbation
 Señal de avería
 Segnale di malfunzionamento
 Störsignal

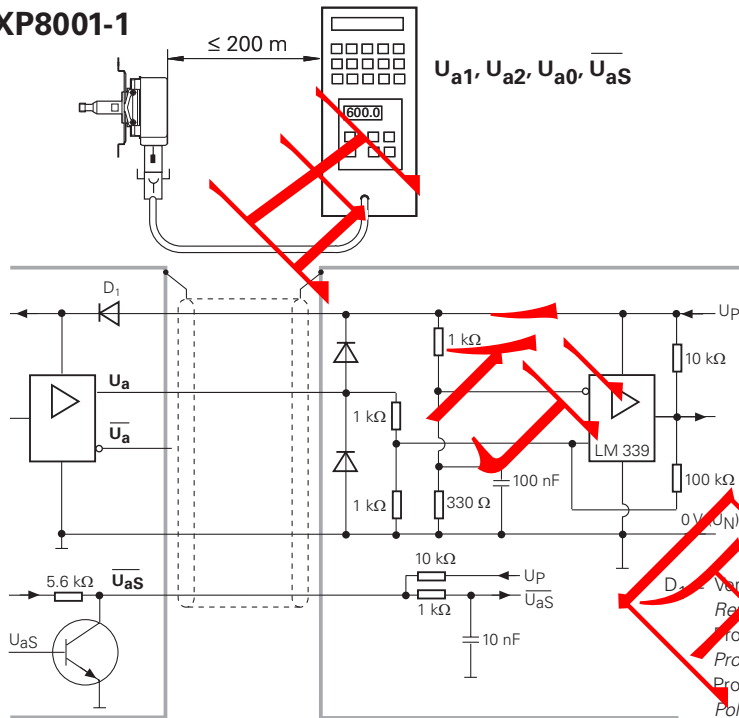
$\overline{U_{aS}}$ = High: ✓

$\overline{U_{aS}}$ = Low: ⚠

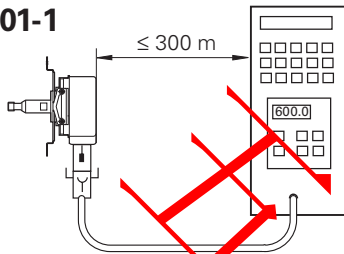
HTL



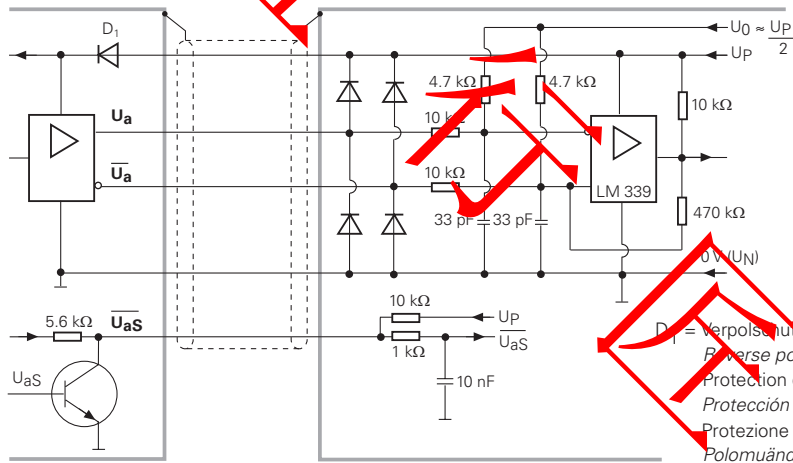
1XP8001-1



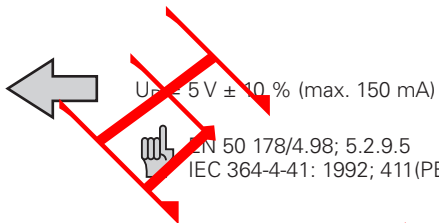
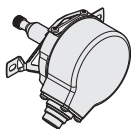
1XP8001-1



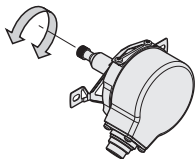
U_{a1}, U_{a2}, U_{a0}
 $\overline{U_{a1}}, \overline{U_{a2}}, \overline{U_{a0}}, \overline{U_{aS}}$



1XP8001-2



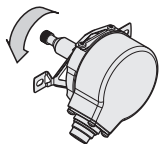
$$n [\text{min}^{-1}] \leq \frac{300 [\text{kHz}]}{Z} \cdot 10^3 \cdot 60 \text{ min}^{-1} \leq 6\,000 \text{ min}^{-1}$$



Z = Strichzahl
Line count
Nombre de traits
Numero de impulsos
Numero di impulsi
Polser



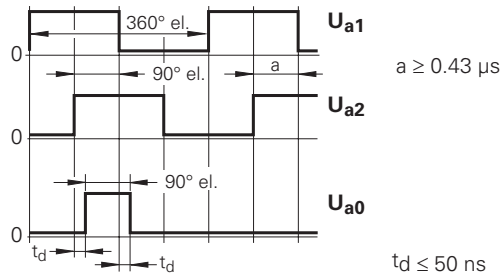
1XP8001-2



$\overline{U_{a1}}$, $\overline{U_{a2}}$, $\overline{U_{a0}}$
 $\overline{U_{a1}}$, $\overline{U_{a2}}$, $\overline{U_{a0}}$, $\overline{U_{aS}}$

Strichzahl
 Line count
 Nombre de traits
 Numero de impulsos
 Numero di impulsi
 Polser

1024

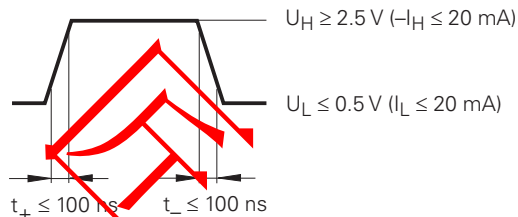


$\overline{U_{aS}}$: Störungssignal
 Fault detection signal
 Signal de perturbation
 Señal de avería
 Segnale di malfunzionamento
 Störsignal

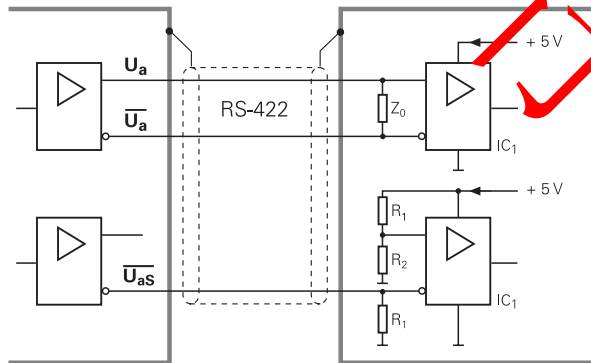
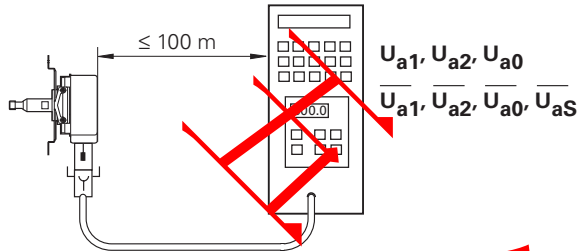
$\overline{U_{aS}} = \text{High}$: ✓

$\overline{U_{aS}} = \text{Low}$: ⚠

TTL



1XP8001-2



$IC_1 =$ Differenzleitungsempfänger nach RS 422
 Differential line receiver as per RS 422
 Récepteur différentiel de ligne selon RS 422
 Ricevitore di linea differenziale secondo RS 422
 Receptor de la tensión diferencial según RS 422
 Differenzleitungsmottagare efter RS 422

$R_1 = 4,7 \text{ k}\Omega$
 $R_2 = 1,8 \text{ k}\Omega$
 $Z_0 = 120 \text{ }\Omega$
 AM 26 LS 32
 MC 3486
 SN 75 ALS 193

Geschäftsgebiet
Geschäftszweig

Automation & Drives
Standard Drives

D-97615 Bad Neustadt an der Saale



Siemens Aktiengesellschaft

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Printed in the Federal Republic of Germany

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