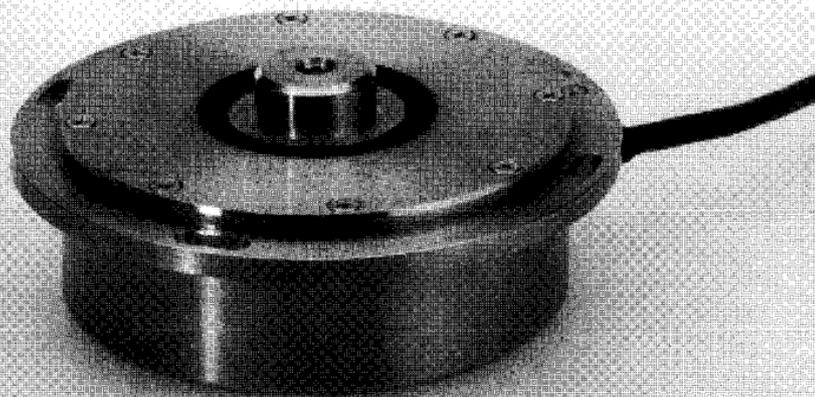




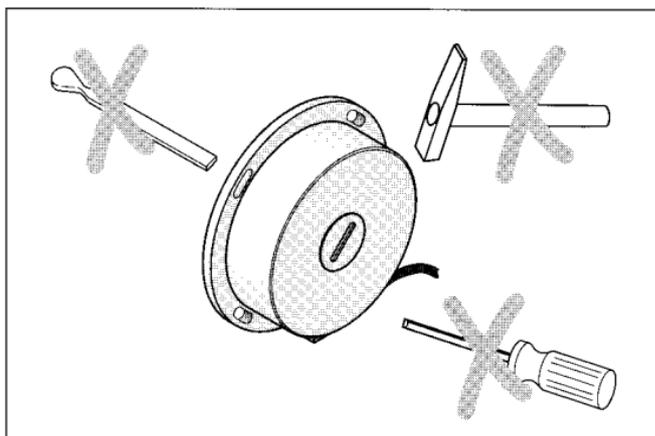
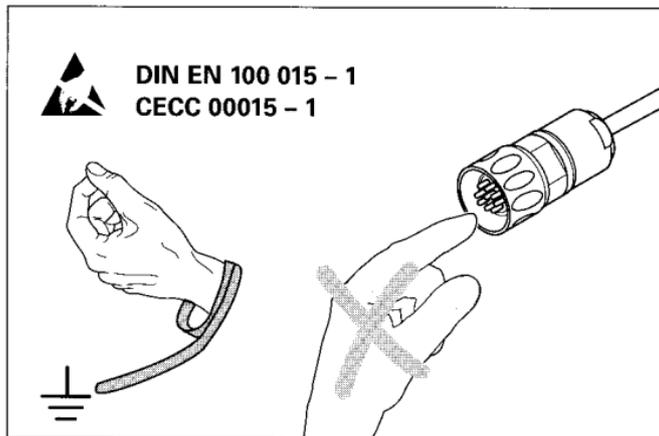
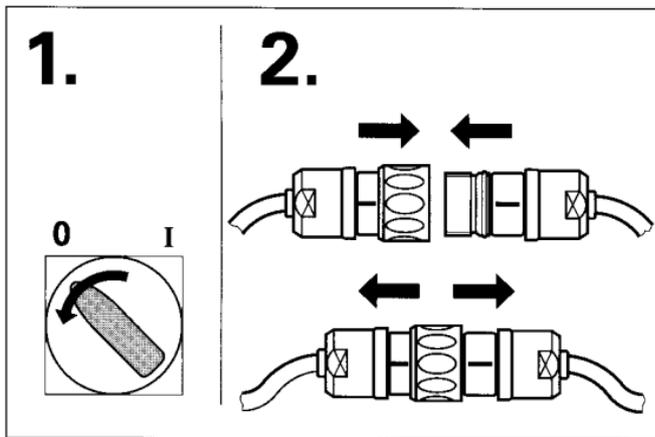
HEIDENHAIN



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

RCN 619

1/97



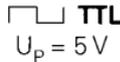
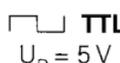
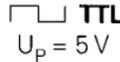
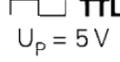
RCN 619. 5xSx

19 $2^{19} = 524\ 288$ [1/360°]

5 $U_p = 5V \pm 5\%$

D Dual
G Gray

R C N 6 1 9 . 5 G S 5

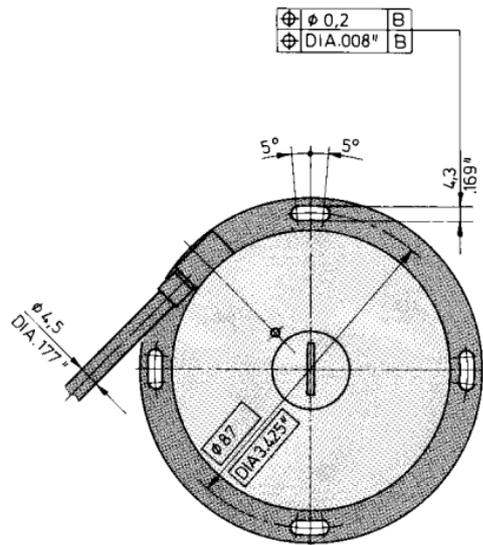
S 5	 TTL $U_p = 5V$	 ↷ 1,2,3,...	seriell serial série serie	 → → ... → bit n bit n-1 ... bit 1 (MSB) (LSB)
S 6	 TTL $U_p = 5V$	 ↷ 1,2,3,...	seriell serial série serie	 → → ... → bit n bit n-1 ... bit 1 (MSB) (LSB)
S 7	 TTL $U_p = 5V$	 ↷ 1,2,3,...	seriell serial série serie	 → → ... → bit n bit n-1 ... bit 1 (MSB) (LSB)
S 8	 TTL $U_p = 5V$	 ↷ 1,2,3,...	seriell serial série serie	 → → ... → bit n bit n-1 ... bit 1 (MSB) (LSB) + Parity

mm/inches

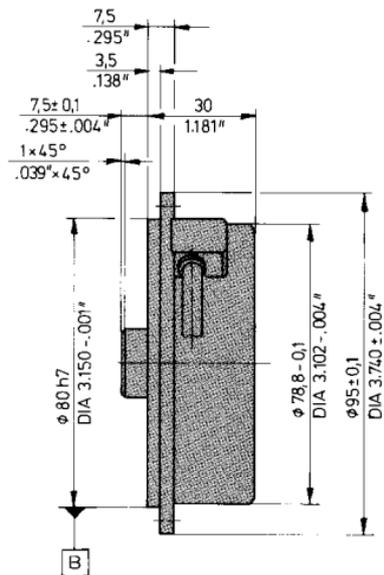


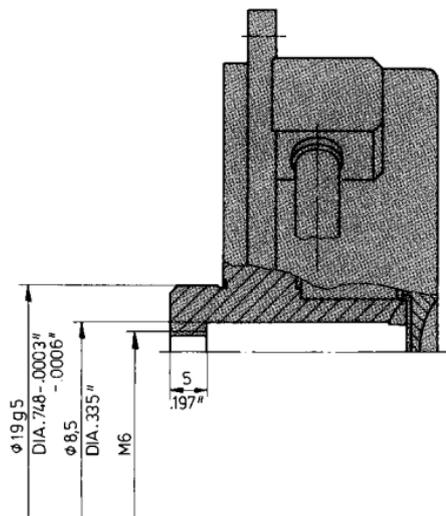
DIN ISO 8015

ISO 2768 - m H



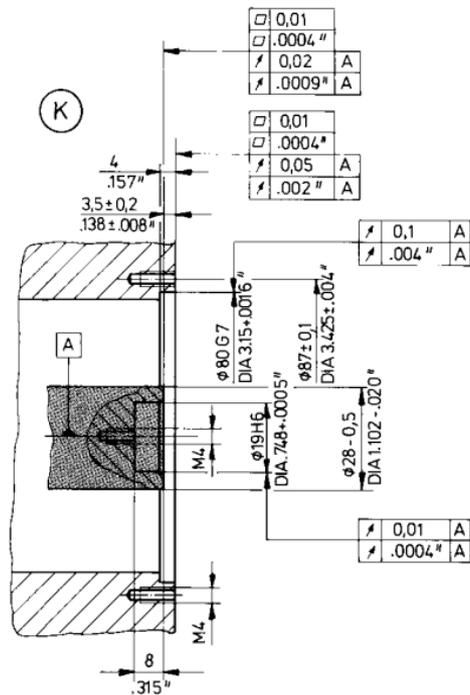
$\phi 0.2$	B
$\text{DIA } 0.008$	B

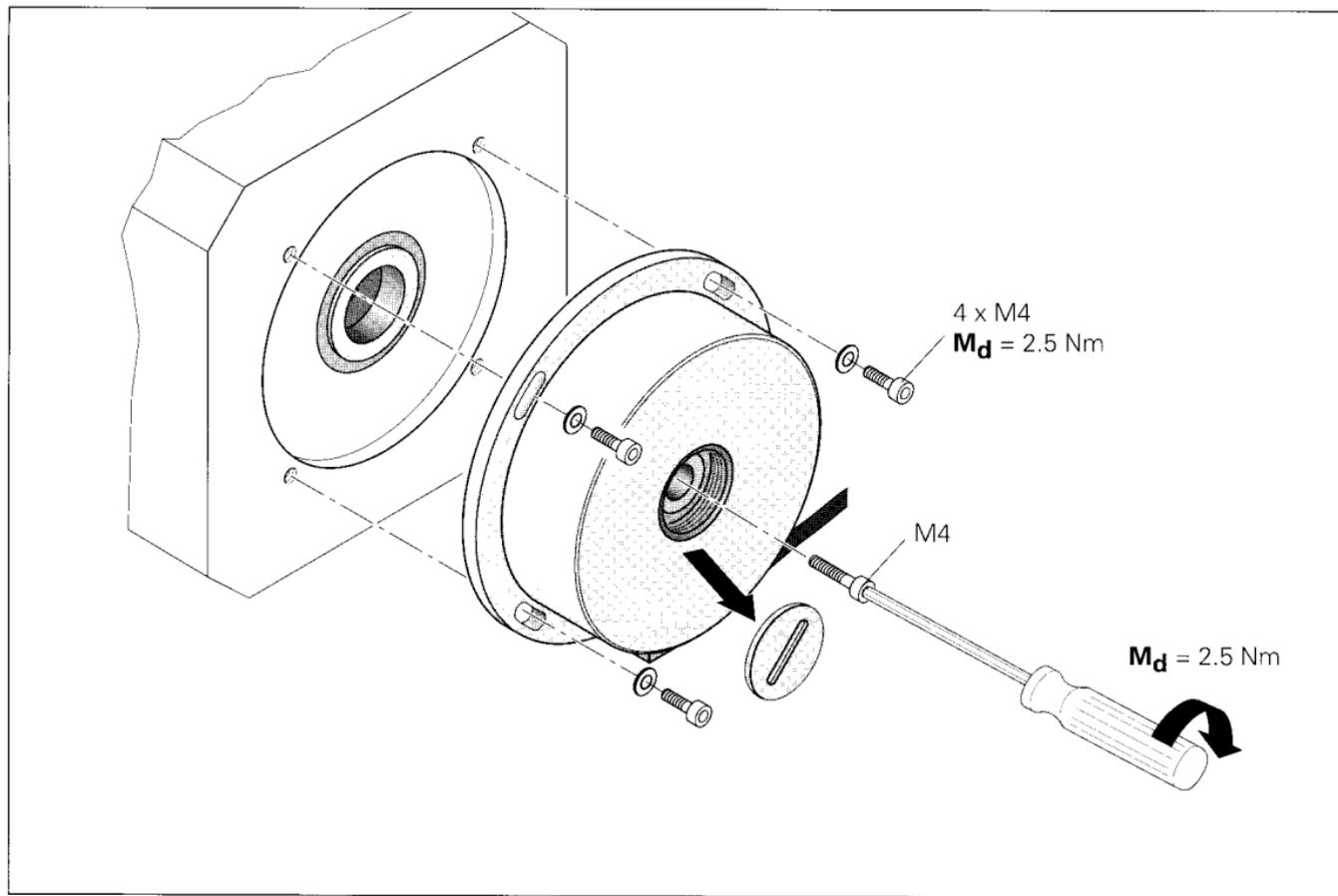


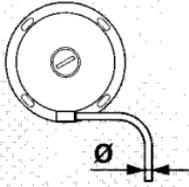
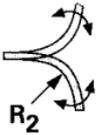


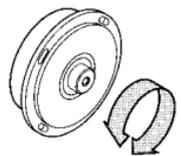
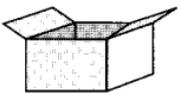
[A] = Lagerung
 Bearing
 roulement
 cuscinetto
 rodamiento

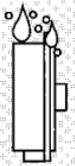
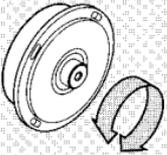
(K) = Kundenseitige Anschlußmaße
 Required mating dimensions
 conditions requises pour le montage
 dimensioni di collegamento lato cliente
 cotas de montaje requeridas

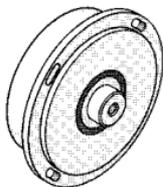
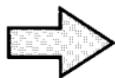




	 <p>R_1</p>	 <p>R_2</p> <p>$T \geq -10\text{ }^\circ\text{C}$ $T \geq 14\text{ }^\circ\text{F}$</p>
<p>Ø 4.5 mm (DIA .177 in.)</p>	<p>$R_1 \geq 10\text{ mm}$ (.4 in.)</p>	<p>$R_2 \geq 50\text{ mm}$ (2 in.)</p>

	 <p>-40 ... 80 °C (-40 ... 176 °F)</p>
	 <p>-40 ... 100 °C (-40 ... 212 °F)</p>

	<p>IP 64 IEC 529 EN 60 529</p>
	<p>$M_d \leq 0.04\text{ Nm}$ (20°C) $I_{\text{Rotor}} = 16.5 \cdot 10^{-6}\text{ kgm}^2$ $c = 4000\text{ Nm/rad}$ $I_{\text{Stator}} = 73 \cdot 10^{-6}\text{ kgm}^2$</p>



U_p = 5 V ± 5 %
(max. 350 mA)



IEC 742
EN 50 178



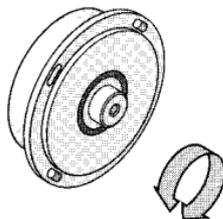
RS 422



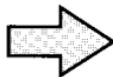
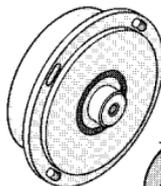
CLOCK



CLOCK



$n \leq \begin{cases} \text{[Waveform]} & 60 \text{ min}^{-1} \\ 3\,000 \text{ min}^{-1}(\text{max.}) \end{cases}$



DATA



DATA



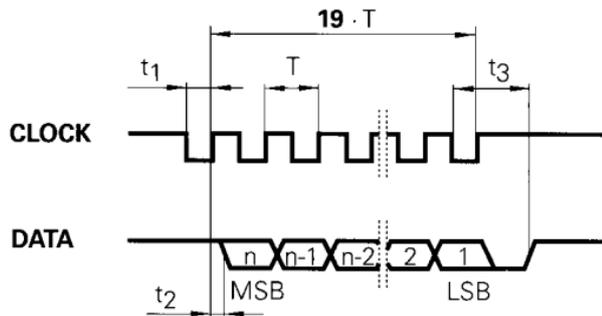
U_{a1} 131 072/360°



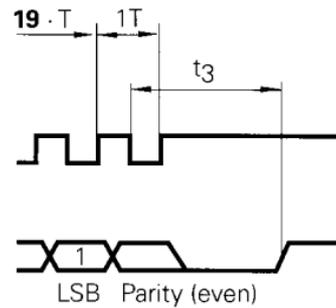
U_{a2} 131 072/360°



RS 422



Parity



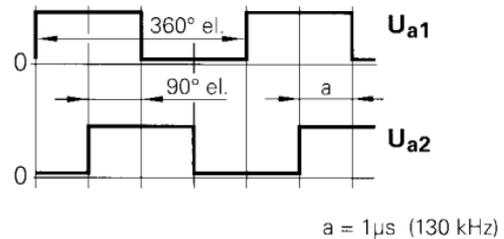
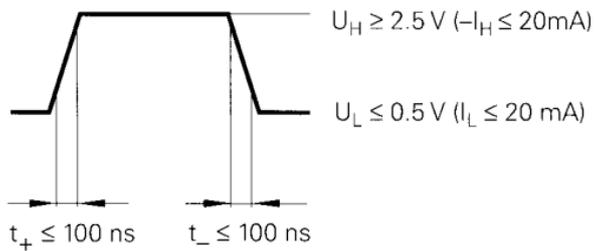
$$T = 0.9 \dots 11 \mu\text{s}$$

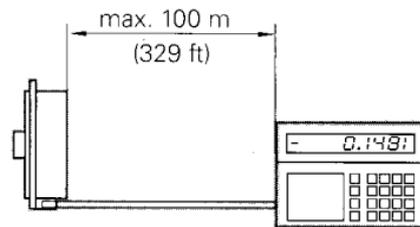
$$t_1 \geq 0.45 \mu\text{s}$$

$$t_2 \leq 0.4 \mu\text{s}$$

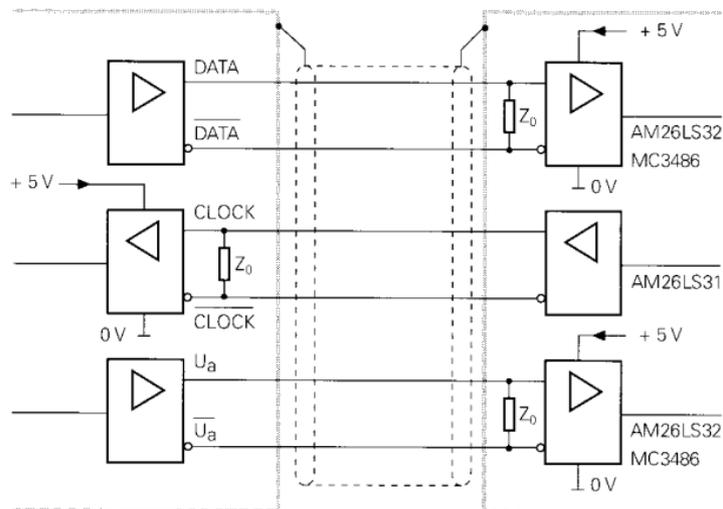
$$t_3 = 12 \dots 25 \mu\text{s}$$

TTL

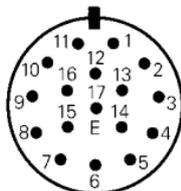
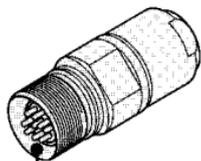




$$C_{\text{Load}} \leq 1000 \text{ pF}$$

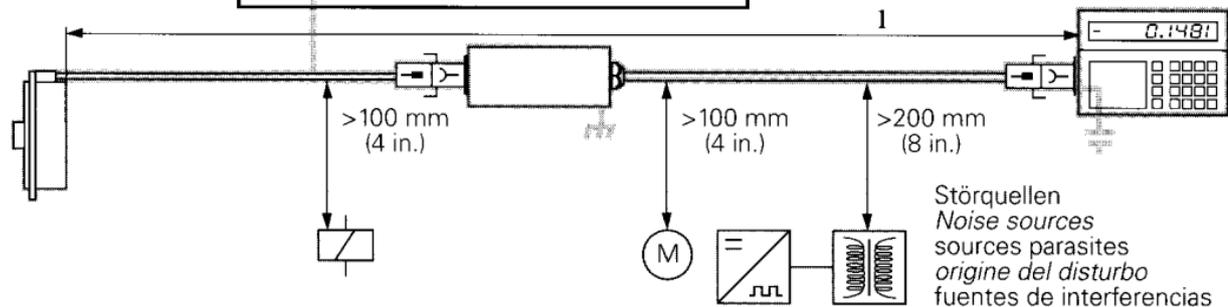


$$Z_0 = 120 \Omega$$



1	2		7	10	3	4	5	6
5 V sensor	$\overline{U_{a2}}$	Schirm Shield blindage schermo blindaje	5 V U_p	0 V U_N	U_{a2}	0 V sensor	$\overline{U_{a1}}$	U_{a1}
blau <i>blue</i> bleu <i>bleu</i> azzurro azul	schwarz <i>black</i> noir <i>noir</i> nero negro		braun/grün <i>brown/green</i> brun/vert <i>marrone/verde</i> marrón/verde	weiß/grün <i>white/green</i> blanc/vert <i>bianco/verde</i> blanco/verde	rot <i>red</i> rouge <i>rosso</i> rojo	weiß <i>white</i> blanc <i>bianco</i> blanco	grün <i>green</i> vert <i>verde</i> verde	braun <i>brown</i> brun <i>marrone</i> marrón

IEC 742 EN 50 178



- 1) Innenschirm Pin 11
Internal shield pin 11
 blindage interne pin 11
schermo interno pin 11
 blindaje interno pin 11

8	9	11	12	13	14	15	16	17
CLOCK	CLOCK	1)	/	/	DATA	/	/	DATA
violett <i>violet</i> violet <i>viola</i> violeta	gelb <i>yellow</i> jaune <i>giallo</i> amarillo		blau/schwarz <i>blue/black</i> bleu/noir <i>azzurro/nero</i> azul/negro	rot/schwarz <i>red/black</i> rouge/noir <i>rosso/nero</i> rojo/negro	grau <i>gray</i> gris <i>grigio</i> gris	grün/schwarz <i>green/black</i> vert/noir <i>verde/nero</i> verde/negro	gelb/schwarz <i>yellow/black</i> jaune/noir <i>giallo/nero</i> amarillo/negro	rosa <i>pink</i> rose <i>rosa</i> rosa

l	T	f
50 m 164 ft	0.9...11µs \triangle	1100...90 kHz
100 m 329 ft	3.3...11µs \triangle	300...90 kHz

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