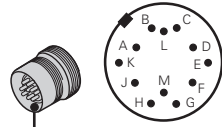
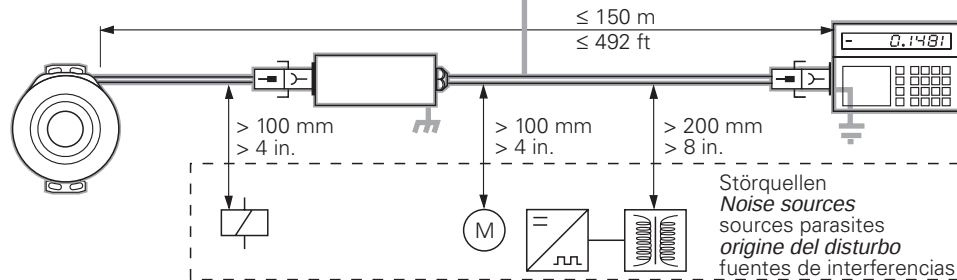


ERN 180

337 640-60



E	F	H	A	C	D	Schirm Shield blindage schermo blindaje	M	K	B	L
A		B		R			5 V Up	0 V Un	5 V sensor	0 V sensor
+	−	+	−	+	−					
braun brown brun marrone marrón	grün green vert verde verde	grau gray gris grigio gris	rosa pink rose rosa rosa	rot red rouge rosso rojo	schwarz black noir nero negro		braun/grün brown/green brun/vert marrone/verde marrón/verde	weiß/grün white/green blanc/vert bianco/verde blanco/verde	blau blue bleu azzurro azul	weiß white blanc bianco blanco



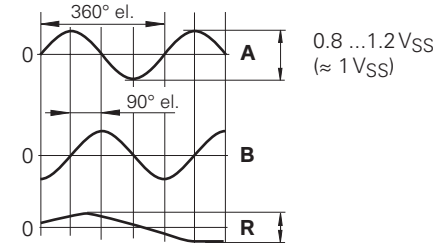
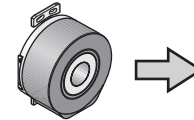
ERN 180

$U_P = 5\text{ V} \pm 10\%$
(max. 150 mA)



EN 50 178/4.98; 5.2.9.5
IEC 364-4-41: 1992; 411 (PELV/SELV)

(siehe, see, voir, vedi, véase
HEIDENHAIN D 231 929-01 - A-01)



ECN 113 EnDat



RS-485

CLOCK
CLOCK

$U_P = 5\text{ V} \pm 5\%$
(max. 150 mA)



EN 50 178/4.98; 5.2.9.5
IEC 364-4-41: 1992; 411 (PELV/SELV)

(siehe, see, voir, vedi, véase
HEIDENHAIN D 231 929-01 - A-01)

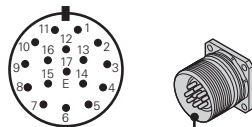
RS-485

CLOCK
CLOCK

$T = 0.5 \dots 10\text{ }\mu\text{s}$
 $f = 2000 \dots 100\text{ kHz}$

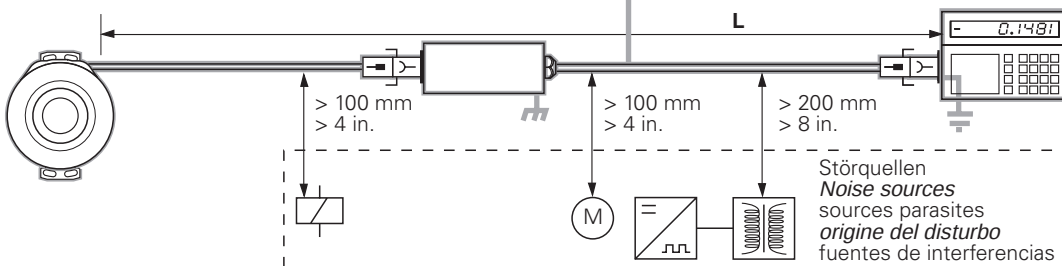
ECN 113

337 641-17



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

1	2	3	4	5	6	8	9	Schirm Shield blindage schermo blindaje	7	10	11	12	13	14	15	16	17
5 V sensor	/	/	0 V sensor	/	/	CLOCK	CLOCK		5 V Up	0 V Un	1)	B		DATA	A		DATA
												+	-		+	-	
blau blue bleu azzurro azul	schwarz black noir nero negro	rot red rouge rosso rojo	weiß white blanc bianco blanco	grün green vert verde verde	braun brown brun marrone marrón	violett violet violet viola violeta	gelb yellow jaune giallo amarillo		braun/grün brown/green brun/vert marrone/verde marrón/verde	weiß/grün white/green blanc/vert bianco/verde blanco/verde		blau/schwarz blue/black bleu/noir azzurro/nero azul/negro	rot/schwarz red/black rouge/noir rosso/nero rojo/negro	grau gray gris grigio gris	grün/schwarz green/black vert/noir verde/nero verde/negro	gelb/schwarz yellow/black jaune/noir giallo/nero amarillo/negro	rosa pink rose rosa rosa

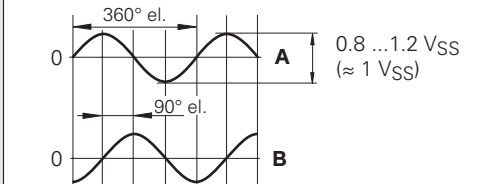


L	T	f
10 m/32.8 ft	0.5...10 μs	$\triangle$ 2000...100 kHz
50 m/164 ft	1.0...10 μs	$\triangle$ 1000...100 kHz
100 m/329 ft	2.0...10 μs	$\triangle$ 500...100 kHz
150 m/492 ft	3.3...10 μs	$\triangle$ 300...100 kHz



RS-485

DATA
DATA
A
B



RS-485

