

Connection diagram:**8 bit gray or binary output:**

Signals	15 pin D-Sub-plug (pin number)	Cable code DIN 47100
D0	7	green
D1	6	yellow
D2	5	grey
D3	4	pink
D4	3	blue
D5	2	red
D6	15	red/blue
D7	14	grey/pink
right	13	black
left	12	violet
supply voltage U+	9	white
GND 0V	8	brown
shielding	housing	shielding

0-20 mA / 4-20 mA output:

Signals	15 pin D-Sub-plug (pin-number)	Cable code DIN 47100
output signal	1	green
right	13	yellow
left	12	grey
supply voltage U+	9	white
GND 0V	8	brown
shielding	housing	shielding

Electrical data:

Supply voltage: 9...36 VDC (U_v)
 Supply current: type (max) 45 (70) mA at 24 VDC
 Temperature: $\pm 0,5\%$ at 20 mA ($\pm 100 \mu A$)
 Output signals: 2 direction signals +
 current output or 8-bit-code
 Angle: $\pm 123^\circ$ max. mechanical measuring

Outputs:

Parallel- and direction outputs: $U_{High} \geq U_v - 3,0 V$, $U_{Low} \leq 0,5 V$
 (at 20 mA) short circuit protected

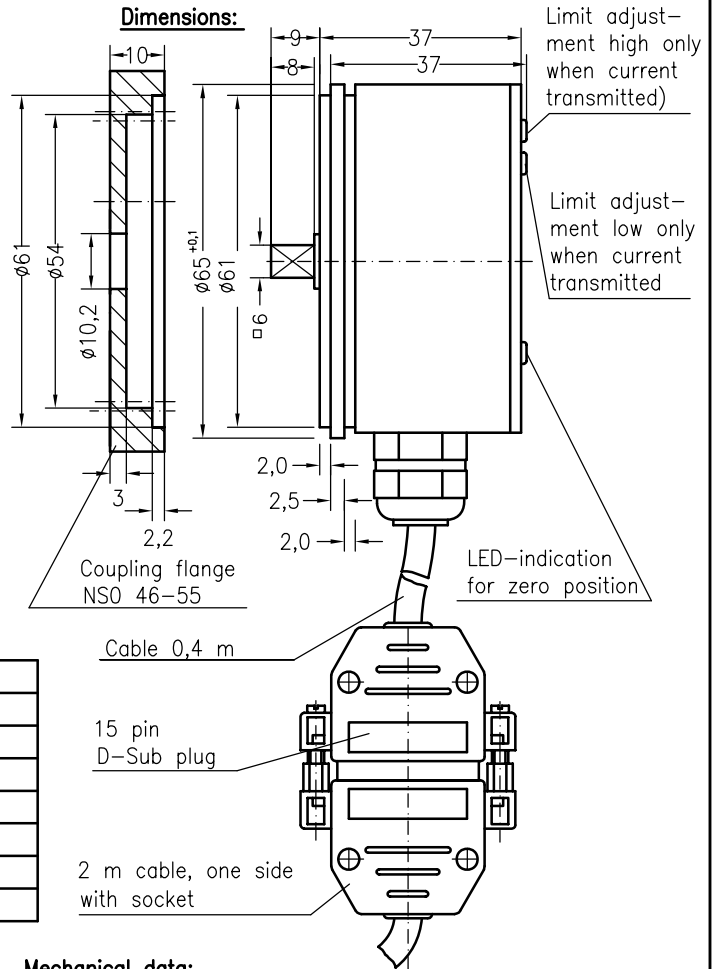
Data code: gray / binary
 Direction signals: signal R=1:a (0:a), L=0:a (1:a)
 CW (CCW) from 0-position
 Current outputs: 0...20 / 4...20 mA
 Max. load: $(+U_v - 2) / 20 \text{ mA} = R \text{ max.}$
 Min. load: 50 (150) 300Ω - 9...24 (24...30)
 30...36 VDC

Adjustment range current output:
 4 mA 3,7...4,3 mA
 20 mA 17...22 mA
 Precision: $\pm 1/2 \text{ LSB}$
 Cable: 0,4 m shielded (16x0,14 mm²)

Addition (extra price):**Program set for encoder:**

- * program-disc
 - * program-cable
 - * discription
- 1 piece

EUR

Dimensions:**Mechanical data:**

Inertia factor: $1,7 \times 10^{-6} \text{ kgm}^2$
 Journal load: radial 20N, axial 10N
 Shaft: 6 mm, quadratic
 Code disc: unbreakable acryl-glass
 Housing: aluminium
 Weight: 350 g
 Protection: IP65
 Temperature: $-20^\circ \text{C} \dots +60^\circ \text{C}$
 Storage temperature: $-25^\circ \text{C} \dots +70^\circ \text{C}$
 Vibration: $\leq 100 \text{ m}^2/\text{s}$ (50...2000 Hz)
 Shock: $\leq 100 \text{ m}^2/\text{s}$ (11 ms)

Features:

LED for zero-position
 Trimming potentiometer for current outputs
 Programmable with PC-program:
 RS-232-communication PC
 encoder (COM1 or COM2)
 (Txd pin10 / Rxd pin11)
 Programmable functions: curve characteristic, angle,
 dead time, gray-, binary-code

EMV:

EN 50081-1
 EN 50082-2

Price:

1 piece

EUR

Additional price:

1 piece coupling NS046-55
 for VNS0 controller.

