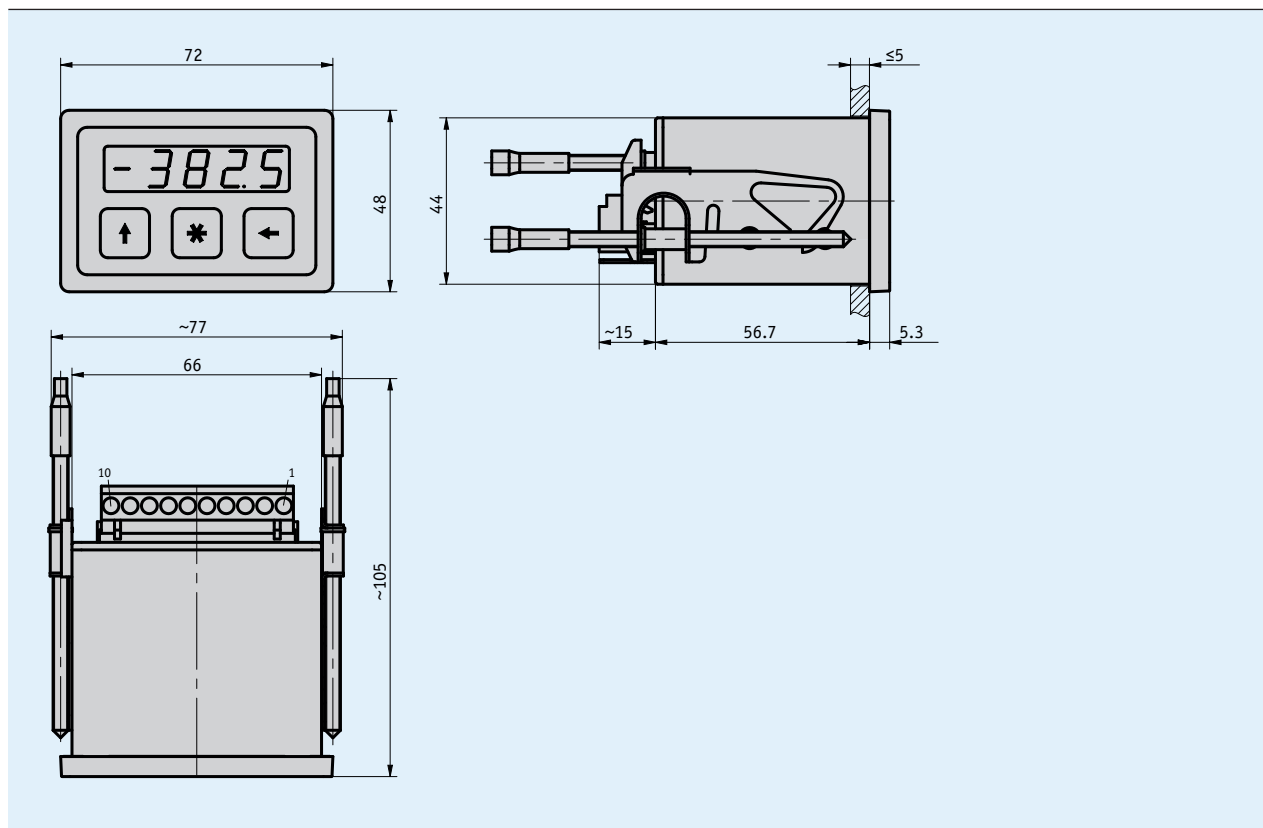## Profile

- Incremental, length, angle, rotational speed or number of pieces measurement
- LED display (1 line of 5 digits)
- Inputs for incremental sensors, length and angle measurement, rotational speed or number of pieces
- Free programming via front keyboard
- Incremental measurement function (operating mode I), actual value memory (operating modes I and S)
- With reference connection
- Programming enabled via external input (keyswitch)
- Compact design

Mechanical data

Feature	Technical data	Additional information
Housing	plastic, with clamping straps	switchboard cutout 68$^{+0.7}$ x 45$^{+0.6}$ IEC 61554
Weight	~0.15 kg	

Electrical data

Feature	Technical data	Additional information
Operating voltage	24 V DC ±20 %	
Current consumption	100 mA	at 24 V DC, without encoder
Encoder supply	24 V DC (200 mA)	
	5 V DC (100 mA)	
Encoder input frequency	25 kHz	with referencing ≤1 kHz
Encoder input	PP, OC, OE, TTL/5, TTL/24	
Pulse analysis	4-fold	
Display/display range	5-digit, LED 7-segment, ~10 mm height, red	-19999 ... 99999
Keys	membrane keyboard with pressure point	
Counter capacity	2^{23} increments	
Type of connection	plug strip	10-pole

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	0 ... 50 °C	
Storage temperature	-20 ... 85 °C	
Relative humidity		condensation inadmissible
EMC	EN 61000-6-2	interference resistance / immission
	EN 61000-6-4	emitted interference / emission
Protection category	IP40 whole device	EN 60529
	IP60 front with switchboard installation	EN 60529

Pin assignment

Signal incremental	Signal speed	Signal quantity	PIN
+ Ub Encoder supply	+ Ub Encoder supply	+ Ub Encoder supply	1
A signal	A signal	A signal	2
B-Signal	nc	nc	3
index signal I/0	nc	nc	4
GND, Shield encoder supply	GND, Shield encoder supply	GND, Shield encoder supply	5
RFS	nc	reset	6
GND	GND	GND	7
configuration	configuration	configuration	8
L (+ Ub)	L (+ Ub)	L (+ Ub)	9
N	N	N	10

Order

■ Ordering table

Feature	Ordering data		Specification	Additional information
Operating mode	I	A	incremental measurement	
	D		speed measurement	
	S		piece number measurement	
Encoder input	PP	B	push-pull	
	OC		open collector	
	OE		open emitter 24 V	
	TTL/5		TTL 5 V	only I operating mode
	TTL/24		TTL 24 V	only I operating mode

■ Order key

MA07/1 - ⬚ - ⬚
        A   B

Scope of delivery: MA07/1, Mounting instructions