Nano-media

Easy
Movement

The Nano-media combines the compact design of the Nano-minor with the technical variance of the Nano-magna – for the greatest variety of operating and feedback possibilities in the smallest space. Can be used in numerous fields of application.

> Operating elements

Joysticks	– Up to 6 single-axis (MSA1)* – Up to 3 dual-axis (MSA2)* – Up to 2 three-axis (MSA3)*
Joystick options	– Stepped travel activation – Embedded push button (MSA2) – Travel limiting gates (MSA2)
Digital on/off switch	Up to 24 on/off functions available via toggle switches, push buttons, rotary switches, key switch, etc.*
Additional analog functions	Up to 4 analog devices such as potentiometers
Cable control interface	1 x CAN I/O for machine control and feedback

*Consult NBB for available combinations.

Compact, ergonomic housing

4.3 inch TFT colour display (customer-specific programming)

Push buttons, rotary switches, potentiometers, toggle switches, key switch, etc.
(different combinations possible)

Push buttons on the side

Bottom contact surface for RFID card

Radiokey with individual customer-specific parameters

Illustration contains optional equipment.

> Technology

SMJ	Proximity detection	Teach-in function	Multi-user system	NBB battery system	LBT frequency search	Data feedback	Inclination sensor	Radiokey

Technical data

Technical information	
Frequency range	419 MHz, 429 MHz, 434 MHz, 868 MHz, 915 MHz, (2.4 GHz) (depending on customer requirements and country-specific regulations)
RF power	≤ 1 mW, ≤ 10 mW, ≤ 25 mW (depending on frequency range and country-specific regulations)
Typical working range	≤ 100 m (depending on environmental conditions)
Frequency channel search, automatic	LBT-Modus (Listen Before Talk) (depending on country and function configuration)
Antenna	Integrated
Typical response time of the control commands	Approx. 50 ms
LF modulation method	FSK / GFSK
Datarate	9,600 Baud (Bit/sec.) at SubGHz / 250 k at 2.4 GHz
Ø Current consumption (depending on the expansion level)	– approx. 125 mA (with LED 7-segment display) – approx. 250 mA (with LCD display)
Prewarning time „Battery empty"	Approx. 15 minutes
Acoustic response	Integrated buzzer, customized setting
LCD/TFT display	Optional: 4.3 inch graphic TFT color display (480 x 272 px), customized illustration possible
Energy saving function (Standby)	Standard: after 60 min. Optional: Setting according to customer requirements (continuous operation possible)

Machine data	
Ambient operating temperature	-20 °C up to +70 °C (NiMH battery) -20 °C up to +60 °C (Li-Ion battery)
Weight	1900 g
Dimensions (L x W x H)	340 mm x 201 mm x 151 mm
Case material	Impact resistant, glass fiber reinforced polyamide
Status display (7-segment, depending on the configuration)	1x (2-digit)

Equipment safety	
CE certification	Yes
Protection class	IP65
Data security	Addressing of each transmitter by unique bit combination
EMERGENCY STOP or STOP function	Yes (sending stop telegrams for 2 sec.)

Power supply	
Power supply	Option 1: NiMH battery (7.2 VDC / 2,400 mAh), pluggable Option 2: Li-Ion battery (7.2 VDC / 3,500 mAh), pluggable
Operating time	Option 1: up to 10 hours Option 2: up to 14 hours
Loading form	Externally, via a separate charger
Charger available for (UE)	110 VAC – 230 VAC, 12/24 VDC
Plug form AC (adapter set)	EU, USA / JP, GB, AU
Plug form DC	Car charger plug