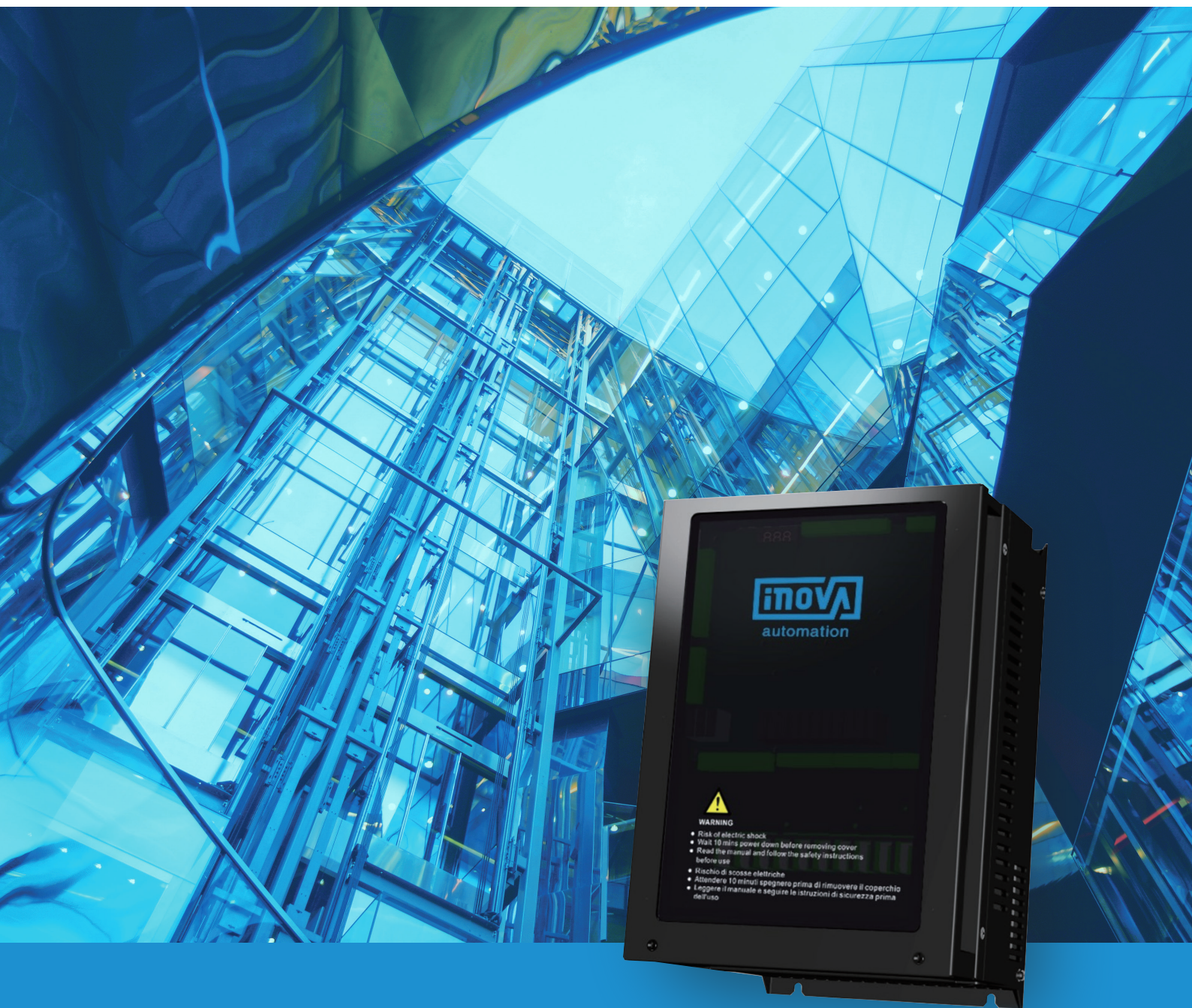


NICE3000^{new} Integrated Solution

For elevators – serial technology



Integrated solution for elevators up to 4 m/sec

EN81-20 Safety Certified

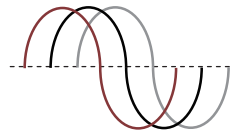
Application Features

- Supports PM gearless and asynchronous geared traction machines
- Smooth ride performance
- "Direct To Floor" technology
- Rapid commissioning step through sequence
- Anti-rollback without any external load cell (gearless machines)
- Pre-torque function (analog signal from load cell for geared machines)
- Flexible programmable I/O's
- Static auto tuning for asynchronous and synchronous machines (without brake opening)

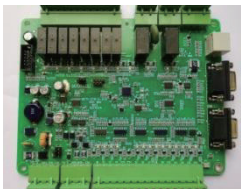
Enhanced reliability with conformal coating, protects against humidity and dust pollution

Operation in high ambient temperatures  45°C_{avg}

Wide operating voltage range 323 to 528 Vac



Duplex control is a standard built-in function



Car Top Board
(MCTC-CTB-A2-Ver L00)

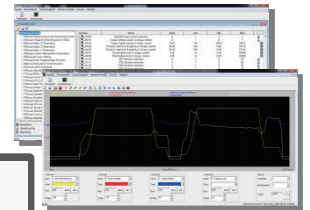
Full serial connection



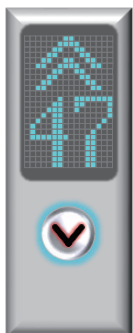
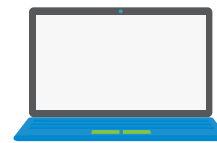
*1Apps & *2PC-Tools software offer simplified start up & backup



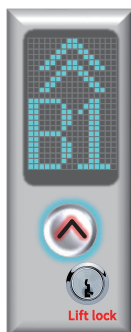
*1 available soon



*2 compatible with Windows 7/10



48 floors, full collective



Feature Highlights

- Standard: 48 floors, full collective (full serial connection)
- Duplex onboard group control (CANbus serial communication)
- Automatic door control mode
- Selectable fireman operation
- Supports 1 ph. 220 Vac UPS (quasi & sine wave) for rescue operation with intelligent light load direction search
- Comprehensive trip diagnostics



General Connection Diagram

Standard: 48 floors, full collective

EN81-20/50 Safety Certified



MCTC-SCB-A3 (optional)
door bridging board

4 x 0.75 mm²
Flat cable



EN81-20/50 Safety Certified NICE900 Door Drive



Door drive feature highlights

- Kinetic energy limitation
- Door nudging 150 Nm force limit (10 Joules)

Display feature highlights

- Hall lantern
- 1 audible beep UP
- 2 audible beeps DOWN
- Buzzer audible adjustable range: 35~65 dBA
- Direction indicator ≥40 mm

Serial technology



Hot pluggable LED/LCD
remote keypad (optional)



MDKE
without memory



MDKE6
with memory for parameter upload/download

NEW

^{*3} MDKE9
Multilingual keypad with memory.
Languages include:
English, Turkish, Italian and Russian

^{*3} available soon



WIFI

PM (gearless)



Induction (geared)



MCTC-PG-E
Female 15-way
D-type connector



MCTC-PG-E6
Terminal block connector



MCTC-PG-F1
Female 15-way
D-type connector



MCTC-PG-D
Female 15-way
D-type connector



MCTC-PG-A2
Terminal block connector



MCTC-PG-D
Female 15-way
D-type connector



SinCos ERN1387
Inovance EI53C9.25
encoders with C, D signals



SinCos EnDat 2.0/2.1
ECN1313/ECN413 encoders



High resolution
quadrature incremental encoder
(A, A', B, B') with UVW
commutation signals

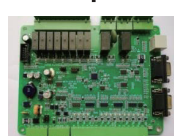


Incremental encoder
(A, B, 0 V @ 10-30 Vdc)



Quadrature incremental encoder
(A, A', B, B', 0 V @ 5 V HTL)

Car Top Board



MCTC-CTB-A2-Ver L00

Feature highlights

- Nudging output for EN81-20
- Motor thermostat input
- Supports single & double automatic doors
- Flexible programmable I/O's
- CANbus communication via mainboard
- Plug & play connections with COP

Fire lift
switch



Arrival annunciator
MCTC-CHM-B

Car call board (MCTC-CCB-A)
Level 17 to 48

Car call I/O Level 1 to 16

- Open door
- Close door
- Hold door

Attendant
Independent
Fireman
Reverse mode
Bypass

EN81-20/50 Safety Certified



MCTC-SCB-A3 (optional)
door bridging board



Optional: hot pluggable LCD/LED remote keypad



MDKE
Without memory



MDKE6
With memory for parameter
upload/download



MDKE9
Multilingual keypad with memory.
Languages include:
English, Turkish, Italian and Russian

*3 available soon

NEW

WIFI

Firmware Update

Operating system

Firmware Interface

Firmware

Hardware



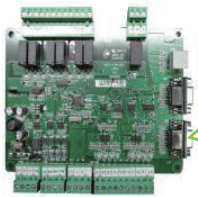
Firmware Update

Updating

76%

Cancel

Car Top Board



MCTC-CTB-A
CANbus connection via main control board

Connection cable



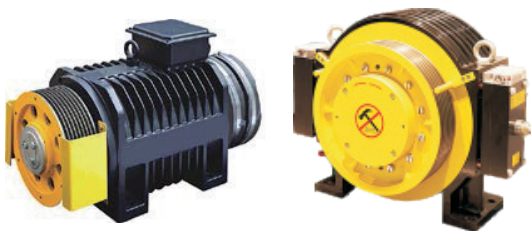
MCTC-CCL

Car call board

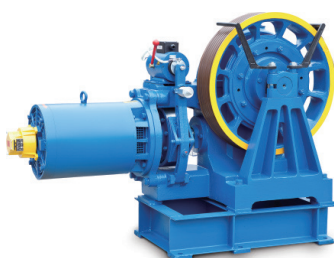


MCTC-CCB-A

PM Gearless



Induction Geared



Encoder Types



MCTC-PG-E
SinCos encoder card, 5 Vdc supply
female 15-way D-type connector

NEW



MCTC-PG-E6
SinCos encoder card, 5 Vdc supply
Terminal Block connector



MCTC-PG-F1
SinCos encoder card, 5 Vdc supply
female 15-way D-type connector



MCTC-PG-D
Quadrature incremental encoder card
(A, A₊, B, B₊) with UVW commutation signals
5 Vdc supply, female 15-way D-type connector



MCTC-PG-A2
Single-ended incremental encoder card
12 Vdc supply, Terminal Block connector



MCTC-PG-D
Quadrature incremental encoder card
5 Vdc supply, female 15-way D-type connector
(A, A₊, B, B₊, 0 V @ 5 V HTL)



SinCos ERN1387
Inovance EI53C9.25
encoders with C, D signals



SinCos EnDat 2.0/2.1
ECN1313/ECN413 encoders



High resolution
quadrature incremental encoder
(A, A₊, B, B₊) with UVW
commutation signals



Incremental encoder
(A, B, 0 V @ 10-30 Vdc)



Quadrature incremental encoder
(A, A₊, B, B₊, 0 V @ 5 V HTL)

General Specifications

380 to 480 Vac, -15% to 10% (323 to 528 Vac)

Model	Frame Size	Input Current [A]	Output Current [A]*4	Typical Motor [KW]	Dimensions [mm]			Dynamic Braking Unit	Dynamic Braking Resistor		
					Height [H]	Width [W]	Depth [D]		Min. [Ω]	Max. [Ω]	Recommended Power [W]
NICE-L-C-4002-EU	C	6.5	5.1	2.2	347	223	143	Built-in	230	290	600
NICE-L-C-4003-EU		10.5	9.0	3.7					135	170	1,100
NICE-L-C-4005-EU		14.8	13.0	5.5					90	115	1,600
NICE-L-C-4007-EU	D	20.5	18.0	7.5	347	223	174		65	85	2,500
NICE-L-C-4011-EU		29.0	27.0	11.0					43	55	3,500
NICE-L-C-4015-EU		36.0	33.0	15.0					35	43	4,500
NICE-L-C-4018-EU	E	41.0	39.0	18.5	350	210	188		25	34	5,500
NICE-L-C-4022-EU		49.5	48.0	22.0					22	24	6,500
NICE-L-C-4030-EU	F	62.0	60.0	30.0	400	250	212		16	20	9,000
NICE-L-C-4037-EU		77.0	75.0	37.0					13	16	11,000

*4 Carrier switching frequency 6 kHz at rated output current @ 150% overload for 60 sec & 200% for 2 sec

Please note:

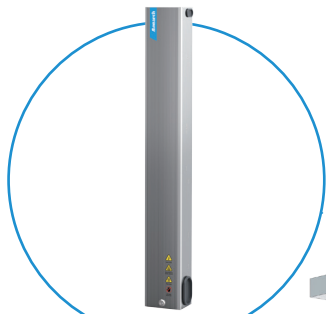
- In CE countries, the recommended RFI filter must be fitted together with screened cables for EMC compliance
- NICE3000^{new} housings are IP20 rated and fan cooled

RFI Filter & AC Line Reactor Specifications

380 to 480 Vac, -15% to 10% (323 to 528 Vac)

Model	Frame Size	Input Current [A]	Power Capacity [kVA]	Optional: External Components		Optional
				RFI Filter Model (Changzhou Jianli)	RFI Filter Model (Schaffner)	AC Input Reactor Model (Inovance)
NICE-L-C-4002-EU	C	6.5	4	DL-10EBK5	FN3258-7-44	MD-ACL-7-3.5-4T-4%
NICE-L-C-4003-EU		10.5	5.9	DL-16EBK5	FN3258-16-44	MD-ACL-10-2.8-4T-4%
NICE-L-C-4005-EU		14.8	8.9			MD-ACL-15-1.9-4T-4%
NICE-L-C-4007-EU	D	20.5	11	DL-25EBK5	FN3258-30-33	MD-ACL-20-1.4-4T-4%
NICE-L-C-4011-EU		29.0	17	DL-35EBK5		MD-ACL-30-0.93-4T-4%
NICE-L-C-4015-EU		36.0	21	DL-50EBK5	FN3258-42-33	MD-ACL-40-0.7-4T-4%
NICE-L-C-4018-EU	E	41.0	24	DL-50EBK5	FN3258-42-33	MD-ACL-50-0.56-4T-4%
NICE-L-C-4022-EU		49.5	30		FN3258-55-34	
NICE-L-C-4030-EU	F	62.0	40	DL-65EBK5	FN3258-75-34	MD-ACL-60-0.24-4T-2%
NICE-L-C-4037-EU		77.0	57	DL-80EBK5	FN3258-100-35	MD-ACL-90-0.16-4T-2%

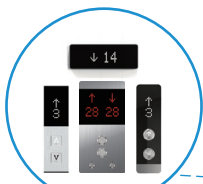
MRL E-Package EN81-20/50 Contactorless SIL3



**MRL Cabinet
NICE Series
EN81-20**



**MRL Operating Panel
Landing Floor**



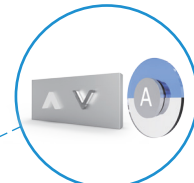
LOP



COP



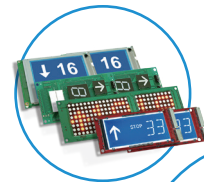
Inspection Box



Hall Lantern



Push Button



**Door Controller
EN81-20 Compliant
Door Nudging**



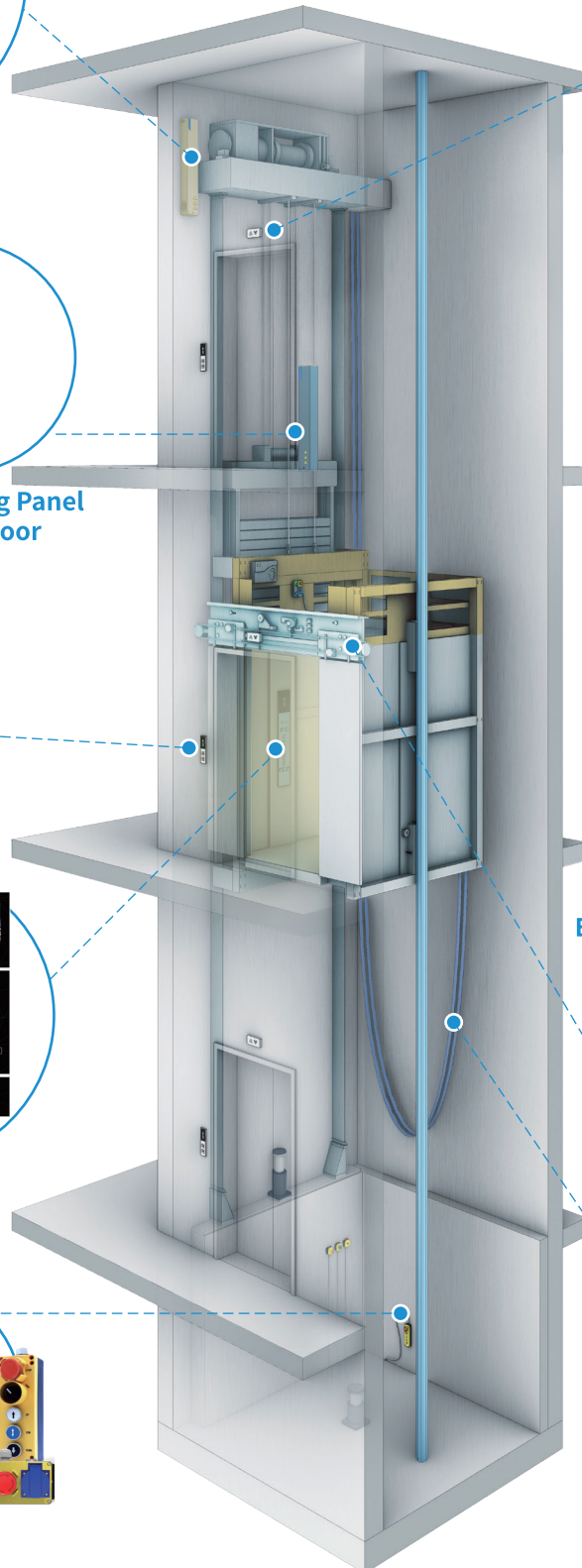
Display



**Complete Door System
EN81-20/50 E120/E1120**



**Cable assembly
& cable harness**



Inspection Box Series



Audible warning box
BJ931



Audible warning box
BJ932



Bypass switch box
BJ941



Emergency stop box
BJ372

Dimensions [L x W x D], (mm)	: 75 x 75 x 61	: 75 x 75 x 61	: 75 x 75 x 61	: 75 x 75 x 61
Enclosure rating	: IP5X	: IP5X	: IP65	: IP65
Installation	: Screws	: Screws	: Screws	: Screws
Applicable place	: Car bottom	: Car bottom	: Shaft pit	: Machine room, Car top, Shaft pit
Alarm	: - 1 NO contact	: N.A	: - 1 NO contact - 1 NC contact	: - 1 NC contact
Buzzer	: - 65 dBA - flashing warning light	: - 65 dBA	: N.A	: N.A
Electrical parameters				
Frequency	: 50/60 Hz	: 50/60 Hz	: 50/60 Hz	: 50/60 Hz
Rated operating voltage	: 24\120\240\380 Vac	: 24\120\240\380 Vac	: 24\120\240\380 Vac	: 24\120\240\380 Vac
Rated operating current	: 10 A	: ≤25 mA	: 10 A	: 10 A
Rated insulation voltage	: 50 ~ 380 Vac	: 50 ~ 380 Vac	: 600 Vac	: 600 Vac
Electrical lifespan	: 2,000 Hours	: 2,000 Hours		
Operating temperature	: -20 ~ +55 °C (no icing)	: -25 ~ +70 °C (no icing)	: -20 ~ +55 °C (no icing)	: -20 ~ +55 °C (no icing)
Storage temperature	: -45 ~ +80 °C	: -40 ~ +80 °C	: -45 ~ +80 °C	: -45 ~ +80 °C



Car top inspection box
BJ151



Handheld inspection box
BJ411



Handheld inspection box
BJ421



Handheld inspection box
BJ431

Dimensions [L x W x D], (mm)	: 230 x 140 x 88		: 270 x 75 x 85	: 220 x 75 x 65
Enclosure rating	: IP53	: IP52	: IP65	: IP65
Mounting	: Wall mount	: Screws, magnet, bracket (optional)	: Screws, magnet, bracket(optional)	: Screws, magnet, bracket (optional)
Applicable place	: Machine room, car top, shaft pit	: Machine room, car top, shaft pit	: Machine room, car top, shaft pit	: Machine room, car top, shaft pit
NO/NC contact details	: - Emergency stop: 1 NC - CAM switch: 1 NO + 2 NC - UP ↑ button: 1 NO - UP/DOWN com button: 1 NO - DOWN ↓ button: 1 NO - alarm button: 1 NO (optional)	: - Emergency stop: 1 NC - CAM switch: 1 NO + 2 NC - UP ↑ button: 1 NO - DOWN ↓ button: 1 NO	: - Emergency stop: 1 NC - CAM switch: 1 NO + 2 NC - UP ↑ button: 1 NO - UP/DOWN com button: 1 NO - DOWN ↓ button: 1 NO - Alarm button: 1 NO	: - Emergency stop: 1 NC - CAM switch: 1 NO + 2 NC - UP ↑ button: 1 NO - UP/DOWN com button: 1 NO - DOWN ↓ button: 1 NO
Electrical parameters				
Frequency	: 50/60 Hz	: 50/60 Hz	: 50/60 Hz	: 50/60 Hz
Rated operating voltage	: 24\120\240\380 Vac	: 24\120\240\380 Vac	: 24\120\240\380 Vac	: 24\120\240\380 Vac
Rated operating current	: 10 A	: 10 A	: 10 A	: 10 A
Rated insulation voltage	: 600 Vac	: 600 Vac	: 600 Vac	: 600 Vac
Electrical lifespan				
Operating temperature	: -20 ~ +55 °C (no icing)	: -20 ~ +55 °C (no icing)	: -20 ~ +55 °C (no icing)	: -20 ~ +55 °C (no icing)
Storage temperature	: -45 ~ +80 °C	: -45 ~ +80 °C	: -45 ~ +80 °C	: -45 ~ +80 °C

Please note: all enclosures are made from ABS material (Fireproof UL94 V0)

Horizontal Display Series



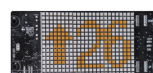
MCTC-HCB-F (red)



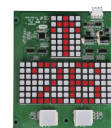
MCTC-HCB-XG-INT-HX (amber)



MCTC-HCB-G1 (red)



MCTC-HCB-G2 (amber)



MCTC-HCB-G3 (red)

Hardware configuration	: - 5 x 7 high contrast dot-matrix LED display - 1 programmable illuminated block	: - 16 x 16 high contrast dot-matrix LED display - double arrow indicator	: - 16 x 24 high contrast dot-matrix LED display	: - 7 x 15 high contrast dot-matrix LED display - 2 programmable illuminated blocks
Dimensions [L x W x D], (mm)	: 144 x 70 x 21	: 100 x 70 x 10	: 157 x 65 x 22	: 160 x 136 x 14
Function configuration				
Scrolling arrow ↑ ↓	: •	: •	: •	: •
Scrolling characters ↵	: •	: •	: •	: •
Hall call input/output ⬆ ⬇	: •	: •	: •	: •
Fire emergency input 🚒	: •	: •	: •	: •
Elevator lock 🚫	: •	: •	: •	: •
Hall lantern ⬆ ⬇	: •	: •	: •	: •
Text display	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE
Supports horizontal / vertical display	: •	: •	: •	: •



MCTC-HCB-V2
(white characters with blue background)
MCTC-HCB-V3
(white characters with black background)



MCTC-DCB-T070
(Material code: 72010383)



MCTC-DCB-T070A
(Material code: 72012668)



MCTC-DCB-T080

Hardware configuration	: - 6.4 inch LCD display	: - 7 inch TFT colour display - resolution: 800 x 480 pixels	: - 7 inch TFT colour display - resolution: 800 x 480 pixels - built-in speaker - internal memory 128 MB	: - 8 inch TFT colour display - resolution: 1,024 x 768 pixels - built-in arrival annunciator - internal memory 128 MB
Dimensions [L x W x D], (mm)	: 185 x 131 x 18	: 188 x 113 x 29	: 188 x 108 x 35	: 214 x 189 x 32
Function configuration				
Scrolling arrow ↑ ↓	: •	: •	: •	: •
Scrolling characters ↵	: •	: •	: •	: •
Hall call input/output ⬆ ⬇	: •	: •	: •	: •
Fire emergency input 🚒	: •	: •	: •	: •
Elevator lock 🚫	: •	: •	: •	: •
Hall lantern ⬆ ⬇	: •	: •	: •	: •
Text display	: •	: •	: •	: •
Supports horizontal / vertical display	: •	: *7 •	: *7 •	: *7 •



MCTC-HCB-T3



MCTC-DCB-T097A



MCTC-DCB-T101

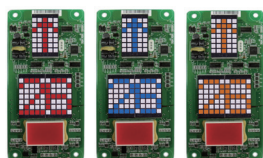


MCTC-DCB-08M/10M/12M/15M

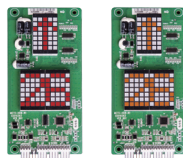
Hardware configuration	: - 9.7 inch TFT colour display - resolution: 1,024 x 768 pixels	: - 9.7 inch TFT colour display - resolution: 1,024 x 768 pixels - built-in arrival annunciator - internal memory 128 MB	: - 10.1 inch TFT colour display - resolution: 1,280 x 800 pixels - internal memory 64 MB	: - 8, 15 inch TFT colour display - resolution: 1,024 x 768 pixels - 10.4, 12.1 inch TFT colour display - resolution: 800 x 600 pixels - built-in arrival annunciator - internal memory 8 GB
Dimensions [L x W x D], (mm)	: 250 x 194 x 32	: 250 x 164 x 31	: 262 x 150 x 28	: 08M: 210 x 194 x 38 10M: 258 x 230 x 40 12M: 290 x 260 x 41 15M: 372 x 302 x 46
Function configuration				
Scrolling arrow ↑ ↓	: •	: •	: •	: •
Scrolling characters ↵	: •	: •	: •	: •
Hall call input/output ⬆ ⬇	: •	: •	: •	: •
Fire emergency input 🚒	: •	: •	: •	: •
Elevator lock 🚫	: •	: •	: •	: •
Hall lantern ⬆ ⬇	: •	: •	: •	: •
Text display	: •	: •	: •	: •
Supports horizontal / vertical display	: *5 •	: *6 •	: *6 •	: *6 •

*5 Please note: background, arrow and floor number editable through TPPS-MNK software
*6 Please note: background, arrow and floor number editable through Set-PictureSize software

Vertical Display Series



MCTC-HCB-H (red)
MCTC-HCB-H1 (blue)
MCTC-HCB-H2 (amber)



MCTC-HCB-R1 (red)
MCTC-HCB-R2 (amber)

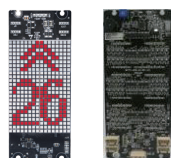


MCTC-HCB-R4 (red)

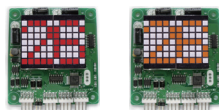


MCTC-HCB-R5 (red)

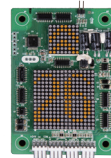
Hardware configuration	: - 5 x 7 high contrast dot-matrix LED display - 1 programmable illuminated block	: - 5 x 7 high contrast dot-matrix LED display	: - 5 x 7 high contrast dot-matrix LED display - floor addressing via binary DIP switch	: - 5 x 7 high contrast dot-matrix LED display - 2 programmable illuminated blocks - floor addressing via binary DIP switch
Dimensions [L x W x D], (mm)	: 144 x 70 x 21	: 144 x 70 x 10	: 150 x 70 x 9	: 144 x 70 x 10
Function configuration				
Scrolling arrow ↑ ↓	: •	: •	: •	: •
Scrolling characters	: •	: •	: •	: •
Hall call input/output	: •	: •	: •	: •
Fire emergency input	: •	: •	: •	: •
Elevator lock	: •	: •	: •	: •
Hall lantern	: •	: •	: •	: •
Text display	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE



MCTC-HCB-G1-INT-VX (red)
MCTC-HCB-G2-INT-VX (amber)



MCTC-HCB-Q1 (red)
MCTC-HCB-Q2 (amber)



MCTC-HCB-XG-INT-VX (amber)



MCTC-HCB-D2
(white characters with blue background)

Hardware configuration	: - 16 x 24 high contrast dot-matrix LED display - buzzer audible adjustable range: 35~65 dBA - 1 audible beep for UP - 2 audible beeps for DOWN - direction indicator ≥ 40 mm - character height 52 mm	: - 5 x 7 high contrast dot-matrix LED display	: - 16 x 16 high contrast dot-matrix LED display - double arrow indicator	: - 3.5 inch ultra-thin TFT display - energy saving: automatic reduction of backlight's brightness after idle > 1 min
Dimensions [L x W x D], (mm)	: 157 x 65 x 22	: 74 x 67 x 10	: 100 x 70 x 10	: 144 x 70 x 10
Function configuration				
Scrolling arrow ↑ ↓	: •	: •	: •	: •
Scrolling characters	: •	: •	: •	: •
Hall call input/output	: •	: •	: •	: •
Fire emergency input	: •	: •	: •	: •
Elevator lock	: •	: •	: •	: •
Hall lantern	: •	: •	: •	: •
Text display	: INS, OVER LOAD, FULL LOAD, FIRE	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE	: INS, OL, FL, FIRE
Pictorial icon	: •	: •	: •	: Overload, inspection, fire, lock



MCTC-HCB-T1



MCTC-DCB-T070



MCTC-DCB-T070A



MCTC-HCB-T6

Hardware configuration	: - 4.3 inch TFT display - resolution: 480 x 272 pixels	: - 7 inch TFT colour display - resolution: 800 x 480 pixels	: - 7 inch TFT colour display - resolution: 800 x 480 pixels - built-in speaker - internal memory 128 MB	: - 9.7 inch TFT colour display - resolution: 1,024 x 768 pixels - audio output through 3.5 mm audio jack - 1 SD card slot
Dimensions [L x W x D], (mm)	: 95 x 53 x 18	: 188 x 113 x 28	: 188 x 108 x 35	: 250 x 194 x 32
Function configuration				
Scrolling arrow ↑ ↓	: •	: •	: •	: •
Scrolling characters	: •	: •	: •	: •
Hall call input/output	: •	: •	: •	: •
Fire emergency input	: •	: •	: •	: •
Elevator lock	: •	: •	: •	: •
Hall lantern	: •	: •	: •	: •
Text display	: Pictorial icon	: •	: •	: •
Supports horizontal / vertical display	: •	: *6 •	: *6 •	: *5 •

*5 Please note: background, arrow and floor number editable through TPSS-MNK software
*6 Please note: background, arrow and floor number editable through Set-PictureSize software

Accessories



LED remote keypad
MDKE (without memory)



LED remote keypad
MDKE6 (with memory)



LCD remote keypad
MDKE9



Extension cable for remote keypad
MDCAB (01013008)

Hardware configuration	: - 5 digit high brightness LED display - hot pluggable - without memory	: - 5 digit high brightness LED display - hot pluggable - with memory for parameter upload/download	: - monochrome LCD display - hot pluggable - with memory for parameter upload/download	: - RJ45 (male to male) straight cable
Dimensions [L x W x D], (mm)	: 116 x 76 x 15	: 116 x 76 x 27	: 123 x 72 x 26.4	: Length: 3 metres
Function configuration	: Allows rapid commissioning and maintenance via step through sequence (e.g. speed, current, DC-bus voltage, etc.)	: Allows rapid commissioning and maintenance via a step through sequence (e.g. speed, current, DC-bus voltage, etc.)	: Multilingual keypad with memory Languages include: English, Turkish, Italian & Russian	: Allows user to connect LED/LCD hot pluggable remote keypad via NICE3000 ^{new} main board



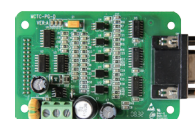
SinCos encoder card
MCTC-PG-E



SinCos encoder card
MCTC-PG-E6



SinCos encoder card
MCTC-PG-F1

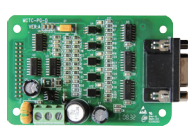


SinCos encoder card
MCTC-PG-D

Hardware configuration	: - 5 Vdc supply - female 15-way D-type connector	: - 5 Vdc supply - terminal block connector	: - 5 Vdc supply - female 15-way D-type connector	: - 5 Vdc supply - female 15-way D-type connector
Dimensions [L x W x D], (mm)	: 83 x 55 x 15	: 83 x 55 x 15	: 83 x 55 x 15	: 83 x 55 x 15
Function configuration	: SinCos ERN1387 Inovance EI53C9.25 encoders with C, D signals	: SinCos ERN1387 Inovance EI53C9.25 encoders with C, D signals	: SinCos EnDat 2.0/2.1 ECN1313/ECN413 encoders	: - high resolution quadrature incremental encoder (A, A _l , B, B _l) with UVW commutation signals



Incremental encoder card
MCTC-PG-A2



Incremental encoder card
MCTC-PG-D



Inovance SinCos encoder
EI53C9.25-2048-SA5N2T



Inovance SinCos shield cable
EP-L-P01-7.5

Hardware configuration	: - 15 Vdc supply - terminal block connector	: - 5 Vdc supply - female 15-way D-type connector	: - rotating speed $\leq 2,000$ rpm - starting torque 1×10^2 Nm - axial load 10 N - radial load 10 N	: - 2 x 7 pin 2.54 mm straight header strip female connector (encoder) - female 15-way D-type connector
Dimensions [L x W x D], (mm)	: 83 x 55 x 15	: 83 x 55 x 15	: 53 x 63 (length: 0.3 metres)	: Length: 7.5 metres
Function configuration	: Single-ended incremental encoder (A, B, Z @ 10~30 Vdc)	: Quadrature incremental encoder (A, A _l , B, B _l , 0V @ 5 V HTL)	: - supply voltage 5 Vdc ($\pm 5\%$) - Z signal amplitude ≥ 200 mV - DC offset voltage V_d : $2.6 \text{ V} \pm 20 \text{ mV}$ - differential signal V_{pp} $1 \text{ V} \pm 0.1 \text{ V}$ - no load current $\leq 100 \text{ mA}$ - frequency response $\leq 50 \text{ kHz}$ - resolution 2,048 PPR	: Allows user to connect Inovance SinCos encoder via MCTC-PG-E



MCTC-Wifi dongle
(01270161)



Incremental encoder (A, B)
EI100H30-1024-BR30Y1



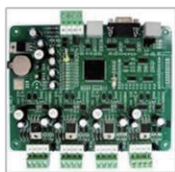
U-Type photoelectric switch
SGD31-GG-TZ2B2



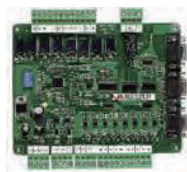
Magnetic sensor
MCTC-LDB-A (1306003)

Hardware configuration	: - 5 V USB	: - rotating speed $\leq 5,000$ rpm - starting torque 5×10^2 Nm - axial load 10 N - radial load 10 N - $\varnothing 100$ mm	: - reverse polarity protection - detecting distance 31 m - NPN/PNP output	: - detecting distance 15~30 mm
Dimensions [L x W x D], (mm)	: 60 x 18 x 10	: 173 x 47 (length: 7.5 metres)	: 72 x 52 x 20 (length: 2 metres)	: $\varnothing 24 \times 87$ mm (length: 1 metre)
Function configuration	: Allows rapid commissioning and maintenance via step through sequence smartphone Apps	: - supply voltage 10~30 Vdc - signal $V_{oh} \geq 85\% V_{cc}$, $V_{ol} \leq 0.5 \text{ V}$ - push-pull current $\leq 80 \text{ mA/ch}$ - frequency response $\leq 200 \text{ kHz}$ - resolution 50~8,192 PPR	: - supply voltage 12~30 Vdc - frequency response $\leq 1 \text{ kHz}$ - current consumption $\leq 60 \text{ mA}$ - output current $\leq 80 \text{ mA}$	: - supply voltage 20~27 Vdc - output 0~10 Vdc

Accessories



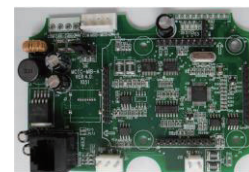
Group control board
MCTC-GCB-A



Car top board (horizontal connector)
MCTC-CTB-A



Car top board (vertical connector)
MCTC-CTB-B

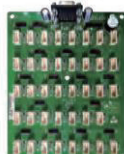


Remote monitoring board
MCTC-MIB-A

Hardware configuration	:	- 1 group of RS232 - 1 group of RS485 - 4 groups of CAN communication ports	- 8 digital inputs - 9 relay outputs - 1 analogue (0~10 Vdc) - 1 RS485 - 1 CANbus - 2 parallel interface expansion ports	- 1 RS485 - 1 RS232	
Dimensions [L x W x D], (mm)	:	162 x 125 x 15	162 x 125 x 15	162 x 125 x 15	104 x 72 x 15
Function configuration	:	- minimum wait time - fuzzy logic control - password protection - group control home landing setting - peak group service - for coordination of 3~4 elevators	- double door single action operation - double door simultaneous operation - door nudging - ventilation fan control - lighting control	Convert NICE3000 ^{new} RS232 protocol to RS485 (RTU) for remote devices	



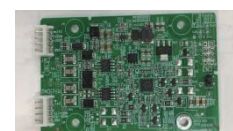
Car call board
MCTC-CCB-A



Car call board
MCTC-CCB-B



Connection cable
MCTC-CCL



Modbus decoder gateway
MCTC-KZ-AO-S

Hardware configuration	: - 24 digital inputs - 20 digital outputs	- 39 digital inputs - 35 digital outputs	- DB9 (Male to Male) straight cable	- 1 RS485 input - 1 RS485 output
Dimensions [L x W x D], (mm)	: 79 x 158 x 16	125 x 160 x 16	Length: 3 metres	104 x 72 x 18
Function configuration	: - 16 floor buttons - 8 functional signals e.g. OPEN/CLOSE, door hold, non-stop mode, attendant mode, reverse mode, independent mode, fireman mode, arrival chime	- 31 floor buttons - 8 functional signals e.g. OPEN/CLOSE, door hold, non-stop mode, attendant mode, reverse mode, independent mode, fireman mode, arrival chime	Allows user to connect the MCTC-CCB-A/B via MCTC-CTB-A/B	RS485 encode and decode gateway via NICE3000 ^{new} main board



Door bridging board
MCTC-SCB-A3 Ver.:B00



Expansion I/O's
MCTC-KZ-G1 Ver.:00



Non-display floor call board
MCTC-HCB-B



Arrival annunciator (synthesized voice)
MCTC-CHM-B

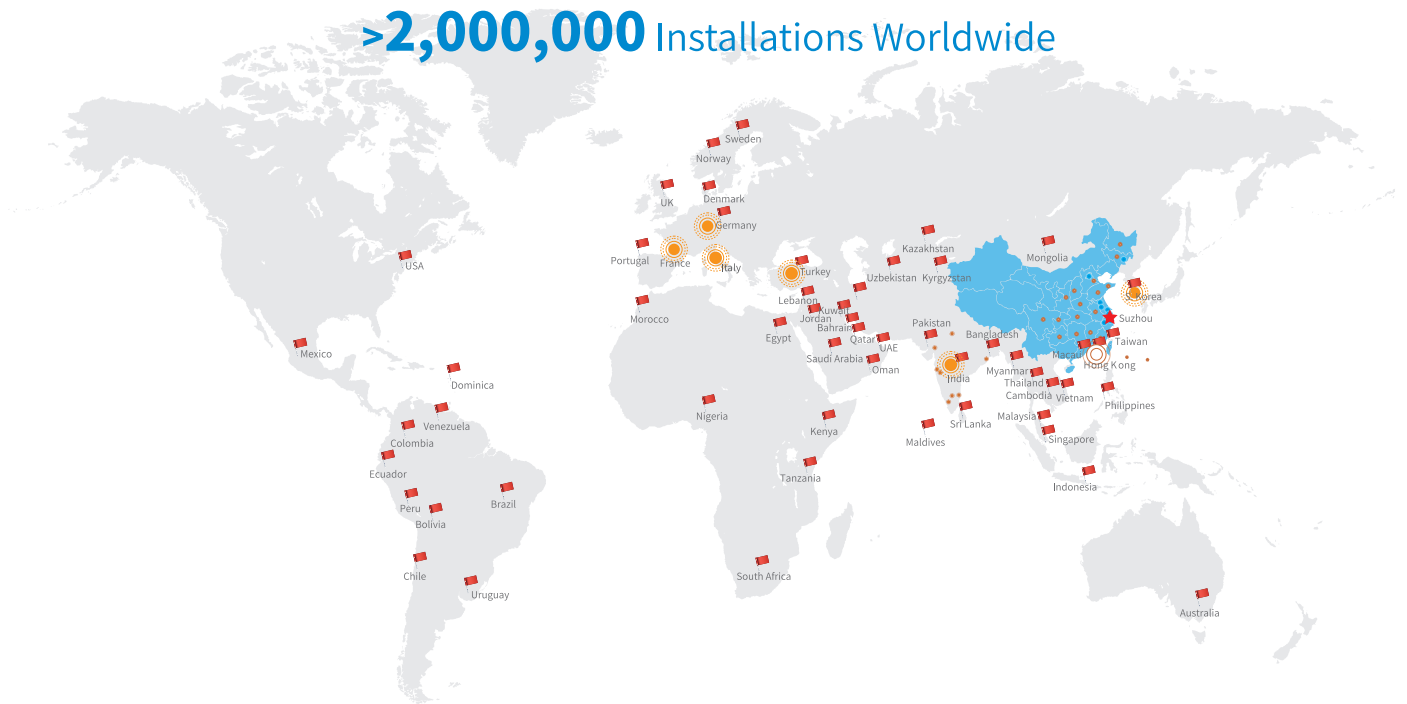
Hardware configuration	: - 4 force guided relays	- 10 digital inputs - 10 digital outputs	- no dot-matrix display - 4 digital inputs/outputs	- bilingual voice - SD card slot
Dimensions [L x W x D], (mm)	: 114 x 72 x 28	178 x 88 x 15	70 x 84 x 20	114 x 89 x 39
Function configuration	: Facilitates bridging the door safety circuit during re-leveling of the elevator and/or door opening, including detection of unintended movement of the car (UCM)		- travel UP & DOWN button indicator outputs - overload indicator - double button control - hall call button input - fire emergency input - lock input	Offers pre-set standard messages and allows bespoke passenger announcements via a voice synthesizer



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