

NICE3000^{new} Integrated Solution

For elevators – serial technology



Integrated solution for elevators up to 4 m/sec

UCM Safety Certified (EN81-1-A3)

Application Features

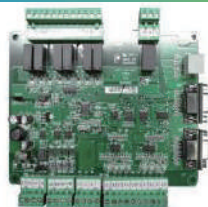
- Supports PM gearless and asynchronous geared traction machines
- Smooth ride performance
- "Direct To Floor" technology
- Rapid commissioning step through sequence
- Anti-rollback without any external load cell (gearless machines)
- Pre-torque function (analog signal from load cell for geared machines)
- 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 $45^{\circ}\text{C}_{\text{avg}}$

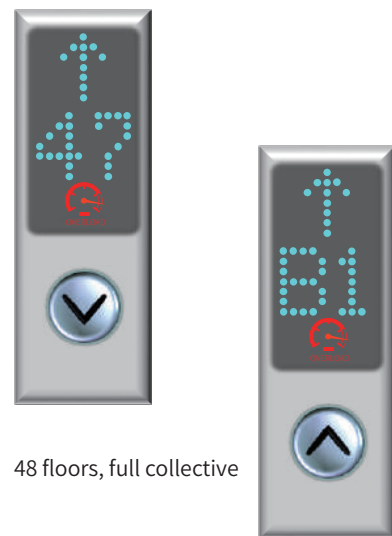
Wide operating voltage range 323 to 528 Vac

Duplex control is a standard built-in function

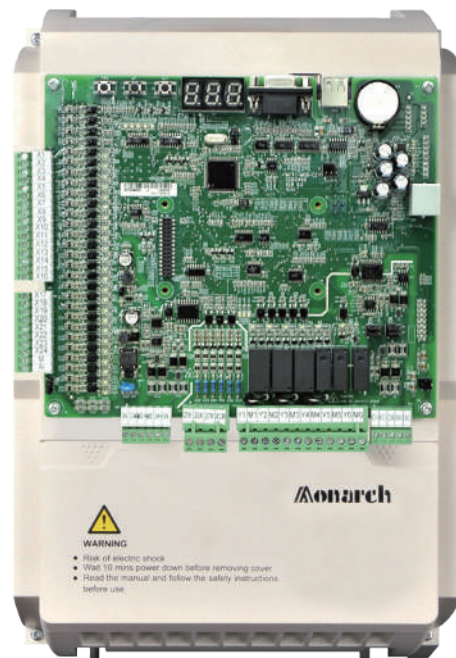


Car Top Board (MCTC-CTB-A)

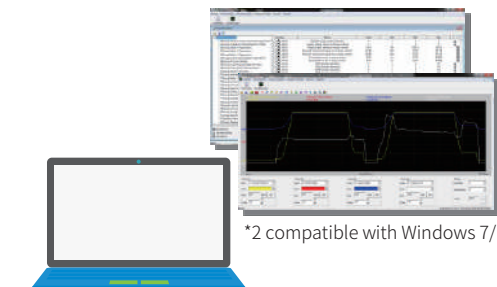
Full serial connection



48 floors, full collective



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



*1 available soon

*2 compatible with Windows 7/10

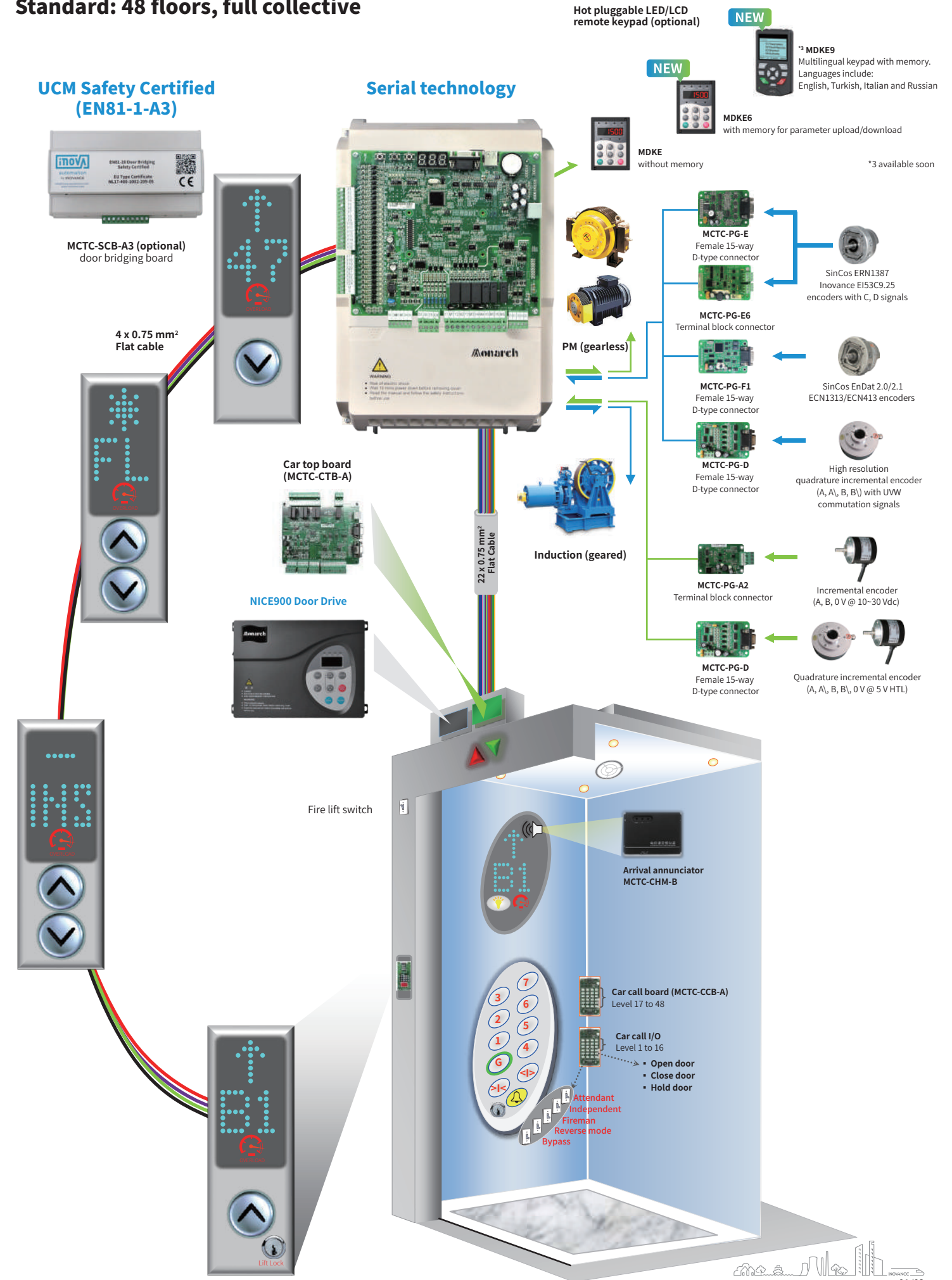
Feature Highlights

- 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
- Output frequency 0.0-99.0 Hz



General Connection Diagram

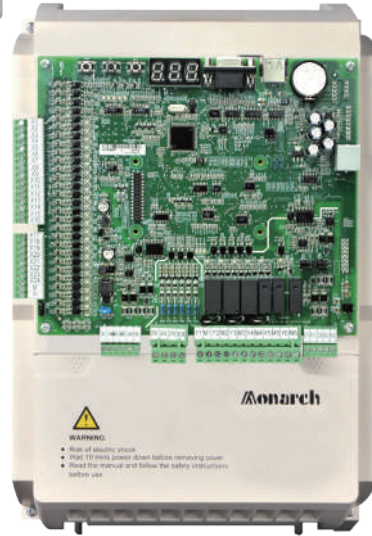
Standard: 48 floors, full collective



**UCM Safety Certified
(EN81-1-A3)**



MCTC-SCB-A3 (optional)
door bridging board



**Optional: hot pluggable
LCD/LED remote keypad**



MDKE
Without memory

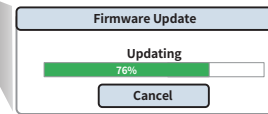
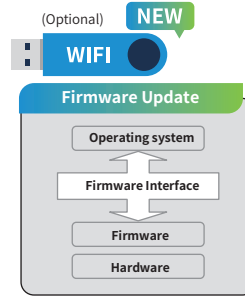


MDKE6
With memory for parameter
upload/download

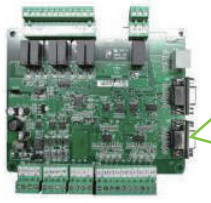


MDKE9
Multilingual keypad with memory.
Languages include:
English, Turkish, Italian and Russian

*3 available soon



Car Top Board



MCTC-CTB-A
CANbus connection via main control board

Connection cable



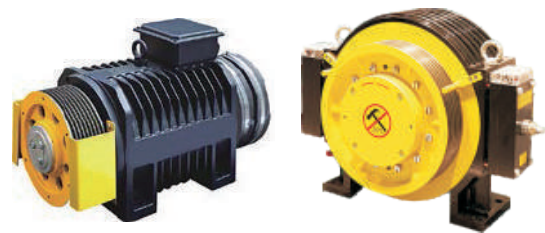
MCTC-CCL

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



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_l, B, B_l) 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_l, B, B_l, 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_l, B, B_l) with UVW
commutation signals



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



Quadrature incremental encoder
(A, A_l, B, B_l, 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	C	6.5	5.1	2.2	347	223	143	Built-in	230	290	600
NICE-L-C-4003		10.5	9.0	3.7					135	170	1,100
NICE-L-C-4005		14.8	13.0	5.5					90	115	1,600
NICE-L-C-4007	D	20.5	18.0	7.5	347	223	174		65	85	2,500
NICE-L-C-4011		29.0	27.0	11.0					43	55	3,500
NICE-L-C-4015		36.0	33.0	15.0					35	43	4,500
NICE-L-C-4018	E	41.0	39.0	18.5	350	210	192		25	34	5,500
NICE-L-C-4022		49.5	48.0	22.0					22	24	6,500
NICE-L-C-4030	F	62.0	60.0	30.0	400	250	223		16	20	9,000
NICE-L-C-4037		77.0	75.0	37.0					13	16	11,000
NICE-L-C-4045	G	93.0	91.0	45.0	600	385	268	External (MDBUN-60-T)	11	14	13,500

*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	C	6.5	4	DL-10EBK5	FN3258-7-44	MD-ACL-7-3.5-4T-4%
NICE-L-C-4003		10.5	5.9	DL-16EBK5	FN3258-16-44	MD-ACL-10-2.8-4T-4%
NICE-L-C-4005		14.8	8.9			MD-ACL-15-1.9-4T-4%
NICE-L-C-4007	D	20.5	11	DL-25EBK5	FN3258-30-33	MD-ACL-20-1.4-4T-4%
NICE-L-C-4011		29.0	17	DL-35EBK5		MD-ACL-30-0.93-4T-4%
NICE-L-C-4015		36.0	21	DL-50EBK5	FN3258-42-33	MD-ACL-40-0.7-4T-4%
NICE-L-C-4018	E	41.0	24	DL-50EBK5	FN3258-42-33	MD-ACL-50-0.56-4T-4%
NICE-L-C-4022		49.5	30		FN3258-55-34	
NICE-L-C-4030	F	62.0	40	DL-65EBK5	FN3258-75-34	MD-ACL-60-0.24-4T-2%
NICE-L-C-4037		77.0	57	DL-80EBK5	FN3258-100-35	MD-ACL-90-0.16-4T-2%
NICE-L-C-4045-XX	G	93.0	69	DL-100EBK5	FN3258-100-35	MD-ACL-120-0.12-4T-2%

General Specifications

220 to 240 Vac, -15% to 10% (187 to 264 Vac)

Model	Frame Size	Input Current [A]		Output Current [A]*5		Typical Motor [KW]		Dimensions [mm]			Dynamic Braking Unit	Dynamic Braking Resistor					
		1Ø	3Ø	1Ø	3Ø			Height [H]	Width [W]	Depth [D]		Min. [Ω]		Max. [Ω]		Recommended Power [W]	
						1Ø	3Ø					1Ø	3Ø	1Ø	3Ø		
NICE-L-C-2002	C	9.2	11.0	5.2	9.6	1.1	2.2	347	223	143	Built-in	125	65	145	72	300	600
NICE-L-C-2003		13.3	17.0	7.5	14.0	1.5	3.7					90	50	105	54	450	1,100
220-NICE-L-C-4007	D	17.9	20.5	10.3	18.0	2.2	4.0	347	223	173		63	35	72	40	600	1,200
220-NICE-L-C-4011		25.3	29.0	15.5	27.0	3.7	5.5					37	25	43	29	1,100	1,600
220-NICE-L-C-4015		31.3	36.0	19.0	33.0	4.0	7.5					35	22	40	26	1,200	2,500
220-NICE-L-C-4018	E	34.6	41.0	22.5	39.0	5.5	11.0	350	210	188		25	13	29	14.5	1,600	3,500
220-NICE-L-C-4022		42.6	49.0	27.7	48.0	11.0	15.0					16	12.5	18	13	3,500	4,500
220-NICE-L-C-4030	F	52.6	62.0	34.6	60.0	15.0	18.5	400	250	208		13	12	13	12.5	4,500	5,500

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

Please note:

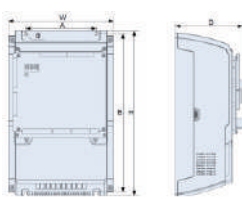
- In CE countries, the recommended RFI filter must be fitted together with screened cables for EMC compliance
- NICE3000^{new} housings are IP20 rated and fan cooled

RFI Filter Specifications

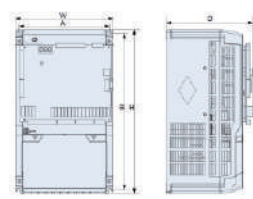
3-Phase: 220 to 240 Vac, -15% to 10% (187 to 264 Vac)

Model	Frame Size	Input Current [A]	Power Capacity [kVA]	Optional: External Components	
				RFI Filter Model (Changzhou Jianli)	RFI Filter Model (Schaffner)
NICE-L-C-4002	C	11.0	4	DL-16EBK5	FN3258-16-44
NICE-L-C-4003		17.0	5.9	DL-25EBK5	FN3258-30-33
220-NICE-L-C-4007	D	20.5	17	DL-25EBK5	FN3258-30-33
220-NICE-L-C-4011		29.0	21	DL-35EBK5	FN3258-30-33
220-NICE-L-C-4015		36.0	24	DL-50EBK5	FN3258-42-33
220-NICE-L-C-4018	E	41.0	30	DL-50EBK5	FN3258-42-33
220-NICE-L-C-4022		49.0	40		FN3258-55-33
220-NICE-L-C-4030	F	62.0	57	DL-65EBK5	FN3258-75-33

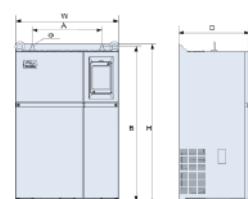
Dimensions



Frame size C, D



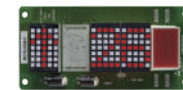
Frame size E, F



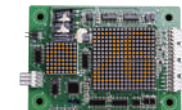
Frame size G

Frame Size	Reference (mm)					Weight (kg)
	A	B	W	H	D	
C	150	335	223	347	143	5.5
D					174	7
E	195	335	210	350	192	9.1
F	230	380	250	400	223	17
G	245	523	385	600	268	35

Horizontal Display Series



MCTC-HCB-F (red)



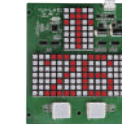
MCTC-HCB-XG-INT-HX (amber)



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
Support s 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

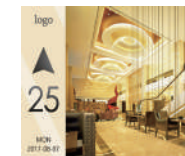
Hardware configuration	- 6.4 inch LCD display	- 7 inch TFT colour display - resolution: 800 x 480 pixels	- 7 inch TFT colour display - resolution: 800 x 480 pixels - built-in speaker - internal memory 128 MB	- 8 inch TFT colour display - resolution: 1,024 x 768 pixels - built-in arrival annunciator - 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



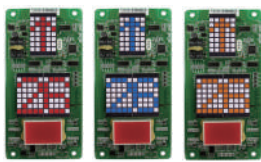
MCTC-DCB-08M/10M/12M/15M

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	*6	*7	*7	*7

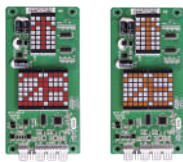
*6 Please note: background, arrow and floor number editable through TPPS-MNK software

*7 Please note: background, arrow and floor number editable through Set-PictureSize software

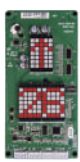
Vertical Display Series



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



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

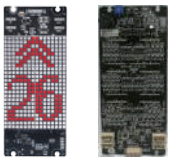


MCTC-HCB-R4 (red)

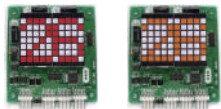


MCTC-HCB-R5 (red)

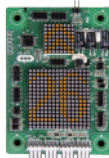
Hardware configuration	: - 5 x 7 high contrast dot-matrix LED display - 1 programmable illuminated block	: - 5 x 7 high contrast dot-matrix LED display	: - 5 x 7 high contrast dot-matrix LED display - floor addressing via binary DIP switch	: - 5 x 7 high contrast dot-matrix LED display - 2 programmable 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	: ●	: *7 ●	: *7 ●	: *6 ●

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

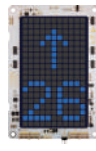
Vertical Display Series



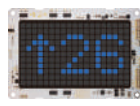
MCTC-HCB(S)-LW01-BZ



MCTC-HCB-HS5(F) (white square dot)
MCTC-HCB-HS5(Y) (white round dot)



MCTC-HCB-HS3(F) (blue square dot)



MCTC-HCB-HS6(F) (yellow square dot)

Hardware configuration	: - 5 x 7 high contrast dot-matrix LED display - floor addressing via binary DIP switch	: - 11 x 19 high contrast square/round dot-matrix LED display	: - 11 x 19 high contrast square dot-matrix LED display	: - 11 x 19 high contrast square dot-matrix LED display
Dimensions [L x W x D], (mm)	: 144 x 70 x 10	: 173 x 118 x 9	: 173 x 118 x 9	: 173 x 118 x 9
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
Support s horizontal / vertical display	: ●	: ●	: ●	: ●



MCTC-HCB-U1E (white text with blue background)
MCTC-HCB-U2E (white text with black background)
MCTC-HCB-U3E (yellow text with black background)
MCTC-HCB-U1T (black text with colour background)



MCTC-HCB-V1
(white text with blue background)
MCTC-HCB-V4
(white text with black background)



MCTC-HCB-U1
(white characters with blue background)
MCTC-HCB-U2
(white characters with black background)
MCTC-HCB-U3
(yellow characters with black background)

Hardware configuration	: - 4.3 inch LCD segment display	: - 6.4 inch TFT display	: - 4.3 inch TFT display
Dimensions [L x W x D], (mm)	: 144 x 76 x 7	: 185 x 131 x 18	: 144 x 80 x 17
Function configuration			
Scrolling arrow ↑ ↓	: ●	: ●	: ●
Scrolling characters ↵	: ●	: ●	: ●
Hall call input/output ⬆ ⬇	: ●	: ●	: ●
Fire emergency input 🚒	: ●	: ●	: ●
Elevator lock 🚫	: ●	: ●	: ●
Hall lantern ⬆ ⬇	: ●	: ●	: ●
Text display	: INS, OL, FL, FIRE		
Pictorial icon	: Overload, inspection, fire, lock	: Overload, inspection, fire, lock	: Overload, inspection, fire, lock



MCTC-HCB-D5A
(white characters with black background)
MCTC-HCB-D3A
(blue characters with black background)
MCTC-HCB-D6A
(yellow characters with black background)

MCTC-HCB-V5A
(white characters with black background)
MCTC-HCB-V3A
(blue characters with black background)
MCTC-HCB-V6A
(yellow characters with black background)



MCTC-HCB-R600

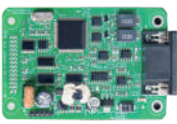
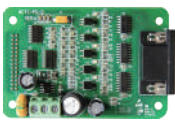


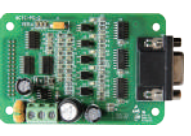
MCTC-HCB-D634

Hardware configuration	: - LED backlit segment display	: - LED backlit segment display		
Dimensions [L x W x D], (mm)	: 130 x 72 x 7	: 173 x 118 x 9	: 130 x 72 x 6	: 130 x 72 x 6
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		
Pictorial icon				: ●

Accessories

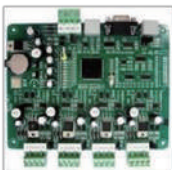
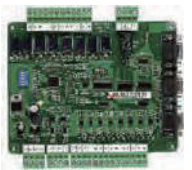
				
	LED remote keypad MDKE (without memory)	LED remote keypad MDKE6 (with memory)	LCD remote keypad MDKE9	Extension cable for remote keypad MDCAB (01013008)
Hardware configuration	- 5 digit high brightness LED display - hot pluggable - without memory	- 5 digit high brightness LED display - hot pluggable - 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 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

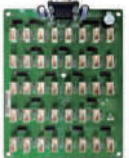
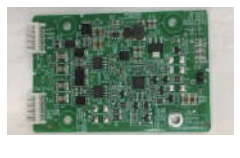
				
	SinCos encoder card MCTC-PG-E	SinCos encoder card MCTC-PG-E6	SinCos encoder card MCTC-PG-F1	SinCos encoder card MCTC-PG-D
Hardware configuration	- 5 Vdc supply - female 15-way D-type connector	- 5 Vdc supply - terminal block connector	- 5 Vdc supply - female 15-way D-type connector	- 5 Vdc supply - female 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 ₊ , B, B ₊) 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 ≤ 2,000 rpm - starting torque 1x10 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 ₊ , B, B ₊ , 0V @ 5 V HTL)	- supply voltage 5 Vdc (±5%) - Z signal amplitude ≥ 200 mV - DC offset voltage V ₀ : 2.6 V ± 20 mV - differential signal V _{pp} 1 V ± 0.1 V - no load current ≤ 100 mA - frequency response ≤ 50 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 ≤ 5,000 rpm - starting torque 5x10 ² Nm - axial load 10 N - radial load 10 N - Ø 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)	Ø 24 x 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} ≥ 85% V _{cc} , V _{ol} ≤ 0.5 V - push-pull current ≤ 80mA/ch - frequency response ≤ 200 kHz - resolution 50~8,192 PPR	- supply voltage 12~30 Vdc - frequency response ≤ 1 kHz - current consumption ≤ 60 mA - output current ≤ 80 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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