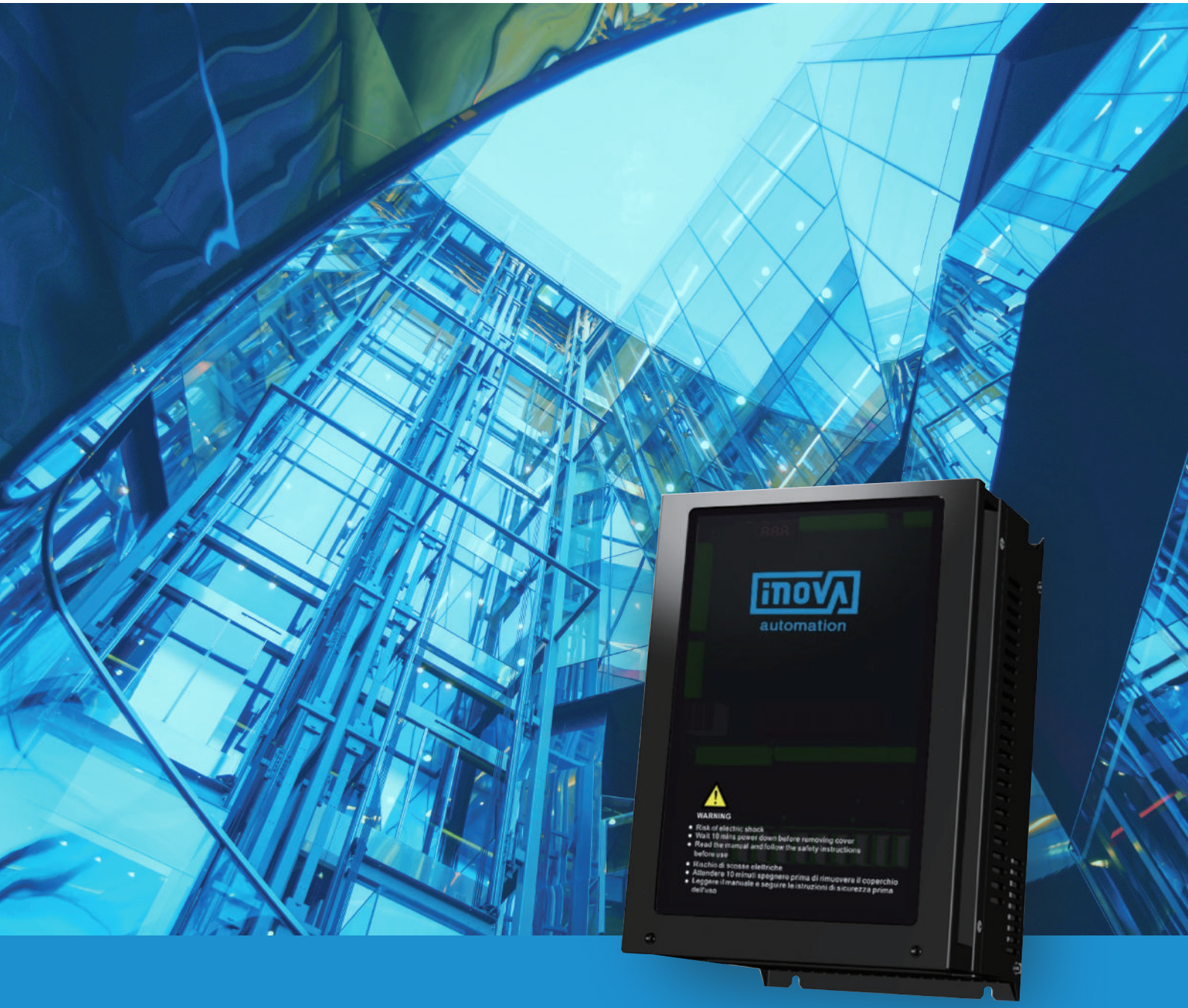
Monarch
by INOVANCE

NICE3000^{new} Integrated Solution

For elevators – serial technology



Forward, Always Progressing

INOVANCE

Monarch by INOVANCE

Integrated solution for elevators up to 4 m/sec

EN81-20 Safety Certified

Application Features

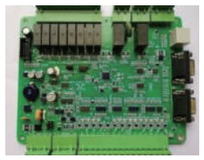
- Supports PM gearless and asynchronous geared traction machines
- Smooth ride performance
- "Direct To Floor" technology
- Rapid commissioning step through sequence
- Anti-rollback without any external load cell (gearless machines)
- Pre-torque function (analog signal from load cell for geared machines)
- 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)

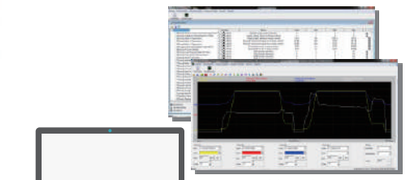
Full serial connection



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

NEW WIFI

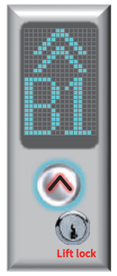
*1 available soon



*2 compatible with Windows 7/10



48 floors, full collective



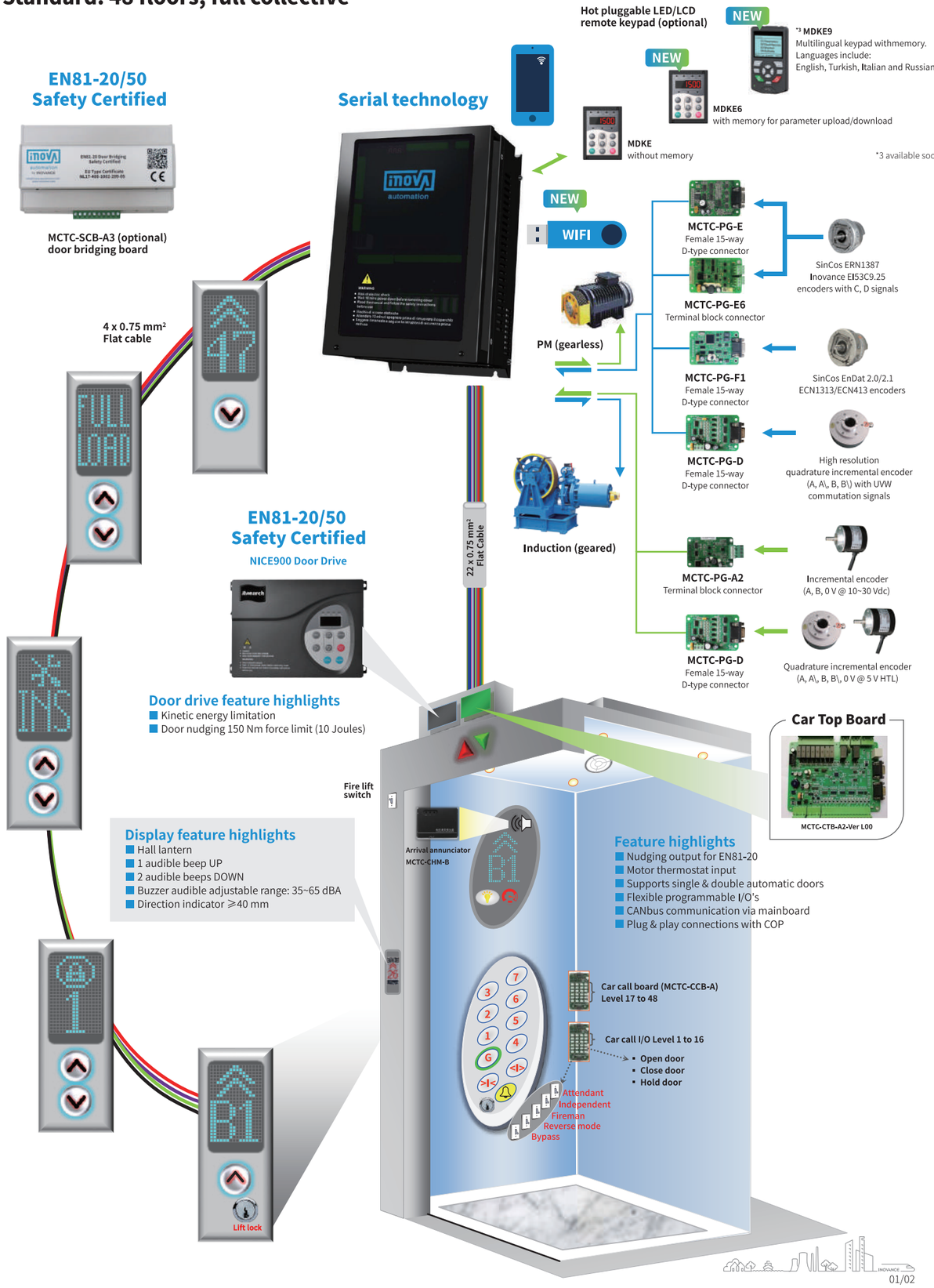
Feature Highlights

- 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

CE TÜV SÜD

General Connection Diagram

Standard: 48 floors, full collective



Monarch
by INOVANCE

EN81-20/50 Safety Certified



MCTC-SCB-A3 (optional) door bridging board



Optional: hot pluggable LCD/LED remote keypad



MDKE
Without memory

NEW



MDKE6
With memory for parameter upload/download

NEW

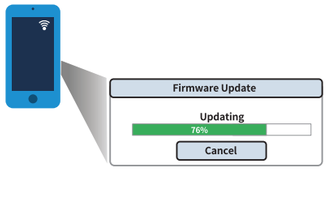


*3 MDKE9
Multilingual keypad with memory.
Languages include:
English, Turkish, Italian and Russian

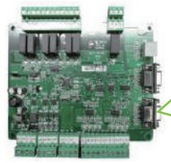
*3 available soon

NEW





Car Top Board



MCTC-CTB-A
CANbus connection via main control board

Connection cable



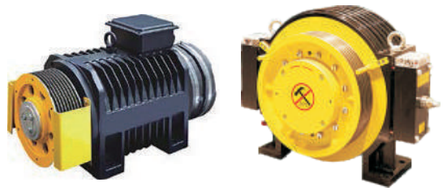
MCTC-CCL

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

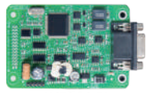


SinCos ERN1387
Inovance EI53C9.25
encoders with C, D signals

NEW



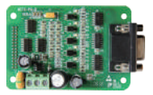
MCTC-PG-E6
SinCos encoder card, 5 Vdc supply
Terminal Block connector



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



SinCos EnDat 2.0/2.1
ECN1313/ECN413 encoders



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



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



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



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



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)



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

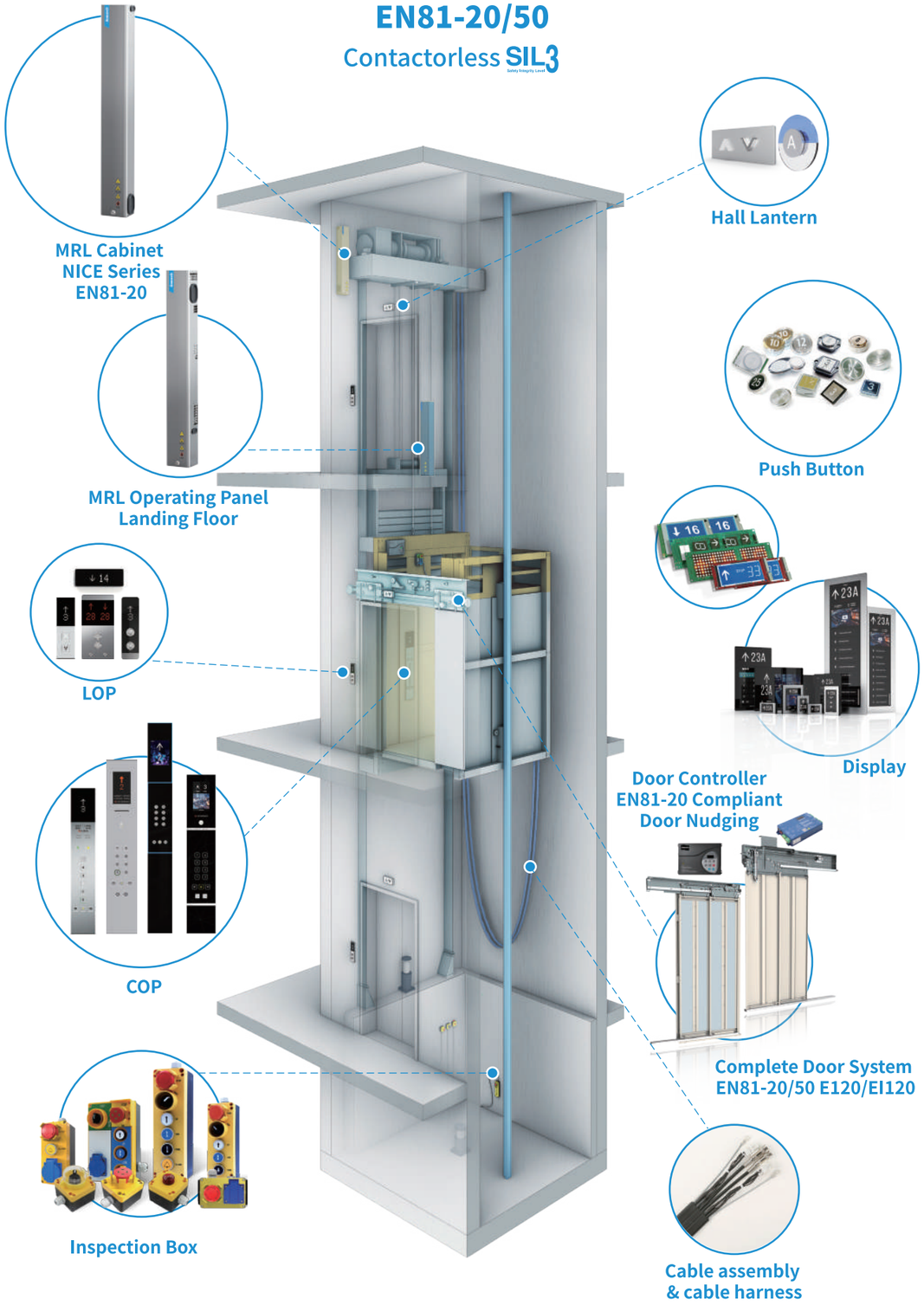
RFI Filter & AC Line Reactor Specifications

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%

Monarch
by INOVANCE

MRL E-Package
EN81-20/50
Contactorless SIL3



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

Monarch by INOVANCE

	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 :	*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

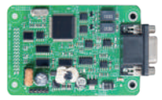
	MCTC-HCB-H (red) MCTC-HCB-H1 (blue) MCTC-HCB-H2 (amber)	MCTC-HCB-R1 (red) MCTC-HCB-R2 (amber)	MCTC-HCB-R4 (red)	MCTC-HCB-R5 (red)
Hardware configuration :	- 5 x 7 high contrast dot-matrix LED display - 1 programmable illuminated block (OVERLOAD)	- 5 x 7 high contrast dot-matrix LED display	- 5 x 7 high contrast dot-matrix LED display - floor addressing via binary DIP switch	- 5 x 7 high contrast dot-matrix LED display - 2 programmable illuminated blocks (OVERLOAD) - 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 - 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

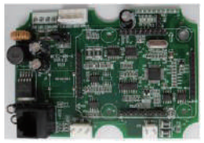
	MCTC-HCB-T1	MCTC-DCB-T070	MCTC-DCB-T070A	MCTC-HCB-T6
Hardware configuration :	- 4.3 inch TFT display - resolution: 480 x 272 pixels	- 7 inch TFT colour display - resolution: 800 x 480 pixels	- 7 inch TFT colour display - resolution: 800 x 480 pixels - built-in speaker internal memory 128 MB	- 9.7 inch 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 TPPS-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 vi 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 s ignals	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 (lengt h: 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_d: 2.6 V ±20 mV - differential signal Vpp 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 - ∅ 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)	∅ 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% Vcc, 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 m onitoring 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-levelling 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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