



Motion Control Engineering  
Voice: 916 463 9200  
Fax: 916 463 9201

Element Hydraulic  
Engineering Survey Form

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Doc #: 42-FR-0451 A5 (JER142)  
www.nidec-mce.com

In order to better serve you and meet your schedule, this form must be completed and signed. Timely delivery and trouble-free installation begin with these data forms. Accurate, complete information is essential. Non-response to a question will be defined as meaning that the item does not apply.

**Note:** For any feature, accessory, or provision **NOT** listed, Element Series will not be able to meet the requirements of your application. Please contact your MCE Sales Account Manager for an alternate product price quotation.

Date:	Number of cars:
Job Name: (26 Chars per line)	
_____	
_____	
Job Location (city and state):	
Contract Date:	
Project Type: <input type="checkbox"/> New construction <input type="checkbox"/> Modernization	
Customer Job #:	PO#:

**Delivery Schedule**

Control	Delivery Date
Car " _____ "	_____
Car " _____ "	_____

**Shipping Information**

Contact:		
Phone:	Fax:	
Company name and address:		
_____		
City	State	Zip Code
Shipping Requirement:		
Advanced Notice: <input type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours		
Truck w/ Lift Gate: <input type="checkbox"/> Yes <input type="checkbox"/> No		

**Contractor Information** ( Check if same as above)

Contact:		
Phone:	Fax:	
Email:		
Company name and address:		
_____		
City	State	Zip Code

**Per state tax laws, it is critical that MCE receive exemption or resale certificates prior to the material being shipped and billed. If the job is a tax exempt job, send the exemption certificate with this form. If you are a resale customer and have a resale certificate, please make sure that the MCE accounting department has a copy on file.**

**Contact:**

Phone:	Fax:
Cell:	
Email:	
Company name:	
Signature:	

**Elevator Safety Code Compliance**

Accurate information is essential.

<b>North American Compliance:</b>	<input type="checkbox"/> U.S.	<input type="checkbox"/> Canada
<b>ASME A17.1/B44 Edition:</b>		
<input type="checkbox"/> 2016 <input type="checkbox"/> 2013 <input type="checkbox"/> 2010 <input type="checkbox"/> 2007 <input type="checkbox"/> 2004 <input type="checkbox"/> 2000		
<b>Addenda/Supplements:</b>		
(None for A17.1-2010 and later) <input type="checkbox"/> 2008(a) <input type="checkbox"/> 2005(a) <input type="checkbox"/> 2002(a) <input type="checkbox"/> 2009(b) <input type="checkbox"/> 2005(S) <input type="checkbox"/> 2003(b)		
<input type="checkbox"/> ASME A17.1-1996 Addenda: <input type="checkbox"/> 1997(a) <input type="checkbox"/> 1998(b)		
<b>Additional state or local code compliance</b>		
<input type="checkbox"/> Chicago		
<input type="checkbox"/> Denver <input type="checkbox"/> Pressurized hoistway		
<input type="checkbox"/> Maryland		
<input type="checkbox"/> Massachusetts (2004)		
<input type="checkbox"/> Michigan ( <b>NOTE:</b> Detroit <b>not</b> supported.)		
<input type="checkbox"/> Nebraska		
<input type="checkbox"/> New York City		
<input type="checkbox"/> Washington State <input type="checkbox"/> Seattle		



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**Selective Collective** (Supports single riser installation only)

Simplex     Duplex

**Hoistway Configuration, Speed & Capacity**

Floor Label *	Landing #	Floor Height	Car _____	Car _____	Lobby Floor	Parking Floor		Fire Service Recall Landing		Car Call Security <input type="checkbox"/> Key Floor Lockout <input type="checkbox"/> Card Reader Dry Contact. (24V Contact Rating) **	Pit Flood Operation <input type="checkbox"/>	EMT Service <input type="checkbox"/>
						Main	Alternate	Main	Alternate			
		O.H.	<b>Select floors served:</b>									
	6	5-6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5	4-5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4	3-4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3	2-3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2	1-2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1	Pit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Capacity	<input type="checkbox"/> lbs <input type="checkbox"/> kg					If no parking floor, car stays at last call answered.  <input type="checkbox"/> Park with Doors Open. <input type="checkbox"/> Doors stay open without demand.  Egress floor ____	Hoistway Sensor(s) <input type="checkbox"/> Above lowest landing of recall <input type="checkbox"/> At or below lowest landing of recall <input type="checkbox"/> None <input type="checkbox"/> At or below designated level	Key Floor Lockout Switch Location <input type="checkbox"/> COP <input type="checkbox"/> Lobby  Card Reader Override Switch Location <input type="checkbox"/> COP <input type="checkbox"/> Lobby <input type="checkbox"/> None  <input type="checkbox"/> Independent Service Override	Please indicate lowest landing car can serve in an event of a flood.	Please indicate main EMT return floor.		
Up Speed	<input type="checkbox"/> fpm <input type="checkbox"/> m/s											
Down Speed:	<input type="checkbox"/> fpm <input type="checkbox"/> m/s											
Total Car Travel:	<input type="checkbox"/> ft <input type="checkbox"/> m											

\* Floor Label note: For CE or E-Motive driver board, floor label should not be more characters than the number of digital PI display characters (BBB)

\*\* Card Reader Dry Contact note: If selected, all floors will be secured by default. However, this can be changed in the controller configuration menu.



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Line Voltage

3-Phase AC Line Voltage (actual measured line voltage)

- Symmetrical Grounded Leg Delta (ISO transformer required)

Choose closest selection below:

- 208, 220, 240, 440, 460, 480, 575, 600, 60 Hz (standard in U.S.), 50 Hz

Hydraulic Data

IMPORTANT: Only single motor operation and standard 4-coil, 120 VAC, valves are supported by this product.

Solid State Motor Starter

Brand: Siemens Sprecher + Schuh

Pump Motor

Motor brand, Voltage, Number of Leads, Starts per hour, HP, FLA

Valve Type (120 VAC / 4 coil valve)

Brand: EECO, Maxton, Blain, TKE

Model:

Hydraulic Features

- Battery Rescue (MCE HAPS), Life Jacket Interface, Low Oil Switch, Oil Tank Temperature Shutdown Switch, Pressure Switch Interface, Viscosity Control, Resynchronous Circuit for Telescopic or Dual Pistons

Operating Features

Earthquake Service

- Seismic Switch, By MCE, By Customer

Emergency Power Generator

- Simplex, Duplex, Resume operation after recovering to closest floor, Sequentially lowers both cars to lobby. 3-position Emergency power/standby switch (Auto / Car A / Car B) will select which elevator to run.

Fire Service Operation (Fire Operation Provided as Standard)

- Additional Phase 1 Recall Switch, Nudging during Fire Recall

Inspection/Access Requirements

- Car Top Inspection Station by MCE (NEMA 1 only), In-Car Inspection (2-position switch), Hoistway Access (2-position switch on COP required), Top, Bottom

Load Weigher

- Discrete Load Weigher Interface

Recall Switch

Car to Lobby Switch

Recall Landing, Floor Label, Park with doors, Location of Switch

Car to Floor Switch

Recall Landing, Floor Label, Park with doors, Location of Switch

Car Shut Down Switch

Recall Landing, Floor Label, Park with doors, Location of Switch

Hoistway

IMPORTANT: Only NEMA 1 hoistway supported on this product.

Landing System

- Distance Feedback, Non-distance feedback, Tape Length Required (ft), Tape Type

EECO Limit Switch

(Note: Mechanical limits are not required with LS-EDGE landing system)

Element Traveling Cable (see page 5 for details)

(Hang length maximum 200 ft.) Cable Length Required (ft), Cable Accessories, Kellem Grips



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Automatic Passenger Style Doors

IMPORTANT: Only fully automatic, horizontally-sliding, passenger-style doors are supported on this product.

Built-in: Door operator interface is built-in. The controller can interface with the door operator directly.

IPC Universal Interface: Interface with existing operator to open loop. Uses IPC Universal Interface Board.

SmarTraq Upgrade Kit: Upgrades existing door operator to closed loop. Comes with drive interface and motor.

Door Operator

Table with columns: Manufacturer, Model, Interface. Lists various door operators from manufacturers like Armor, ECI, GAL, Haughton, MCE, Montgomery, Otis, TKE/Dover, and Westinghouse.

\*Requires customer supplied DC Power Supply.

Door Features

- Door Hold Operation (non-fire operation)
Switch Button (default hold time = 120 seconds)
Infrared detector unit/photo eye
Cut-out switch in COP
Nudging Output†
Buzzer only (doors remain open)
Reduced closing torque & buzzer
Nudging with stuck photo eye

† Buzzers/Lights must be 24VDC

Fixtures

- Auxiliary Car Station
Discrete wiring to main COP board.
Provide additional serial COP board.

Call Registration

- Serial Car Call (standard)
Serial Hall Call (standard)

Lanterns & Gongs/Chimes

- Car Lanterns†
Discrete Serial 3-wire
Hall Lanterns† (Only Serial 3-wire supported)
Passing Floor Gong†
Passing Floor Gong Enable ("S") Button Interface
† Buzzers/Lights must be 24VDC

Indicators†

- Call Registration Buzzer
Door Hold Light
Egress Floor Gong
In-Service Light
Security Light
† Buzzers/Lights must be 24VDC

Serial Fixture Driver Format (Built into CPU board in controller)

- CE Electronics 3-Wire Micro Comm
E-Motive 3-Wire Driver

Serial Fixture Pre-Wire

Ship Serial Boards to fixture manufacture for pre-wire:

Contact Person: \_\_\_\_\_

Phone#: (\_\_\_\_) \_\_\_\_ - \_\_\_\_\_

- C.E. Electronics EPCO Dupar
Innovation Industries Monitor Mad
ERM PTL
Elevator Contractor Office
Other

Which boards to be sent? COP Hall Station Node

Voice announcement

- MCE CE 3-wire driver board interface (built into controller)
Other: \_\_\_\_\_

**Element Traveling Cable**

**Part Number:** 44-03-0048  
**Maximum length:** 200 feet

**Overall Diameter:** 1.37 inches (34.7 mm).  
**Cable Net Weight:** 946 lbs/1000 ft (1407 kg/km).

**Conductors:** Stranded bare soft drawn copper.

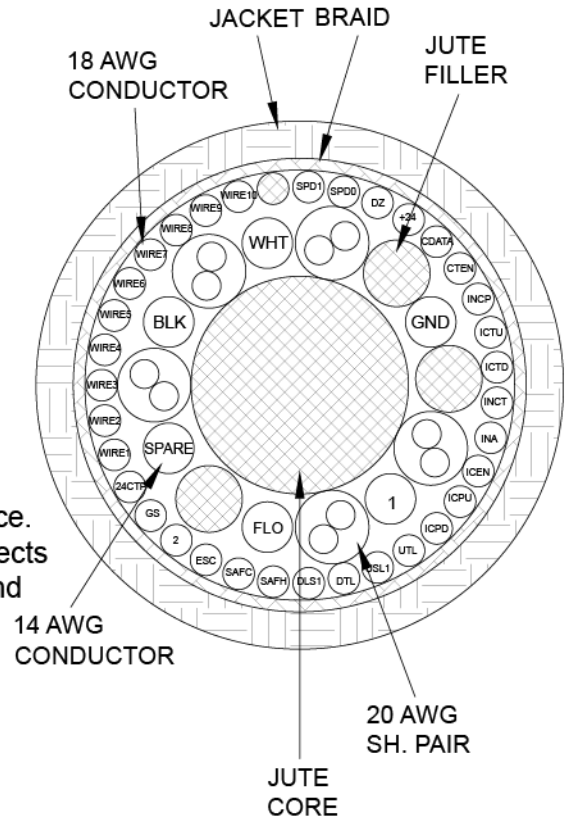
**Insulation:** 60 degrees C, 300 volt rated.

**Shielded Pairs:** 2 twisted 20 AWG conductors, copper braid shield, PVC jacket.

**Braid:** Rayon, 95% coverage of the core.

**Jacket:** 60 degree C PVC with wear-resistant surface. Retards flame, inhibits oxidation, resists effects of sunlight, water, oil, weathering effects, and most solvents and chemicals.

**18 AWG Wires:** 34  
**20 AWG Pairs:** 5  
**14 AWG Wires:** 6



18 AWG		20 AWG Pair			14 AWG	
Conductor #	Insul Color	Conductor Color	Conductor Print	Jacket Color	Conductor #	Insul Color
SPD1	Blue	Black/White	CANL1/CANH1	Orange	BLK	Black
SPD0	Blue	Black/White	CANL2/CANH2	Red	WHT	White
DZ	Blue	Black/White	T1/T2	Black	GND	Green
+24	Blue	Black/White	SpareA/SpareB	Tan	1	Orange
CDATA	BLUE	Black/White	SpareC/SpareD	Tan	FLO	Lavender
CTEN	Blue				Spare	Tan
INCP	Blue					
ICTU	Blue					
ICTD	Blue					
INCT	Blue					
INA	Blue					
ICEN	Blue					
ICPU	Blue					
ICPD	Blue					
UTL	Orange					
USL1	Orange					
DTL	Orange					
DLS1	Orange					
SAFH	Orange					
SAFC	Orange					
ESC	Orange					
2	Orange					
GS	Orange					
24CTP	Blue					
Wire1 - 10	Tan					

**Caution:** Hoistway and traveler cables support general requirements for most installations. The customer is solely responsible for making certain that the wire count and type, cable attributes, and length are sufficient before ordering product.