MITSUBISHI ELECTRIC
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NZ2FT Series
Slice Type Remote I/O

Story

NZ2FT Series Broadcast

Space-saving simple configuration

The NZ2FT Series slice type remote I/O module, equipped with 16 points, has a width of 11.5 mm. Up to 64 modules can be connected per station, allowing multi-point configuration, realizing space-saving. Moreover, when an external power supply is connected to coupler modules and extended power supply modules, the power is supplied to all modules. Thus, it is unnecessary to connect the power to each I/O module.

Reduce downtime and maintenance costs

The NZ2FT Series slice type remote I/O module has LEDs for each terminal. Therefore, operation can be easily checked, reducing maintenance costs. The slice I/O module also supports a hot swap function that enables module replacement with the power on, reducing downtime.

Highlights

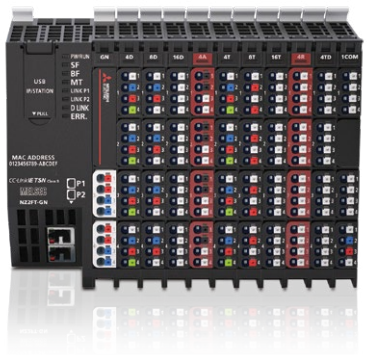
- Space-saving simple configuration
- Less wiring time with detachable push-in type connector
- Less downtime with a hot swap function
- Setting tool built in a coupler module

Dedicated setting tool (Web server)

Parameters can be set using GX Works3 or Web server, a dedicated setting tool built in a coupler module. This dedicated setting tool includes features such as monitoring/diagnostics and functional tests, helping to reduce engineering time and machine costs.

Detachable push-in type connector

Equipped with a push-in type spring clamp terminal block, wiring is easy just by inserting a ferrule terminal or bar terminal. Moreover, the detachable connector enables harness connection after wiring, shortening wiring time.



Flexible system configuration combining with slice I/O modules with various functions

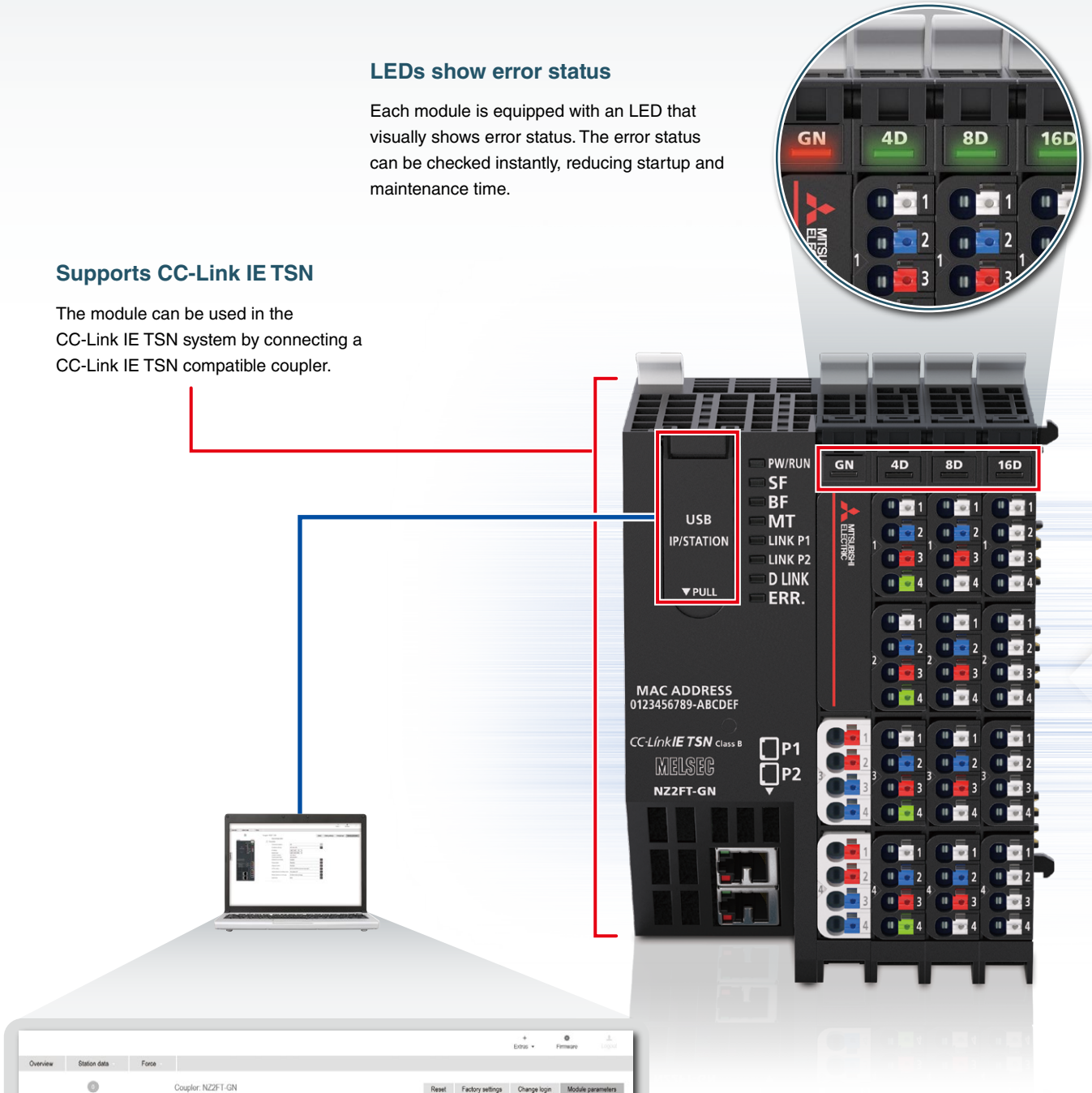
The NZ2FT Series slice type remote I/O modules are thin modules connectable each other. A flexible and compact system can be configured by selecting modules with various functions and different input/output points. The dedicated setting tool built in a coupler module enables intuitive parameter settings and monitoring/diagnostics.

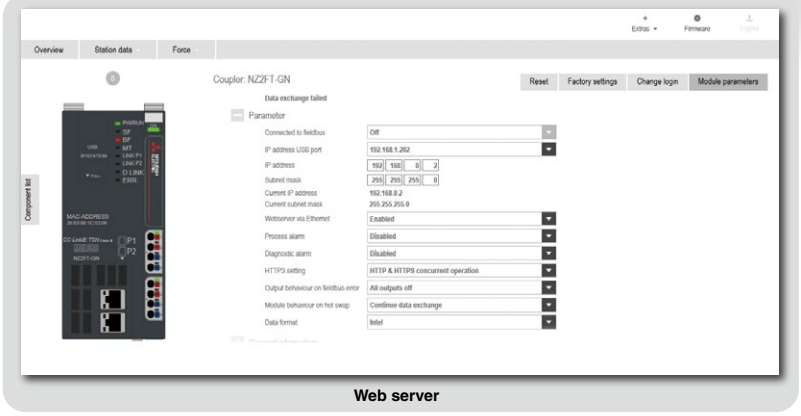
LEDs show error status

Each module is equipped with an LED that visually shows error status. The error status can be checked instantly, reducing startup and maintenance time.

Supports CC-Link IE TSN

The module can be used in the CC-Link IE TSN system by connecting a CC-Link IE TSN compatible coupler.

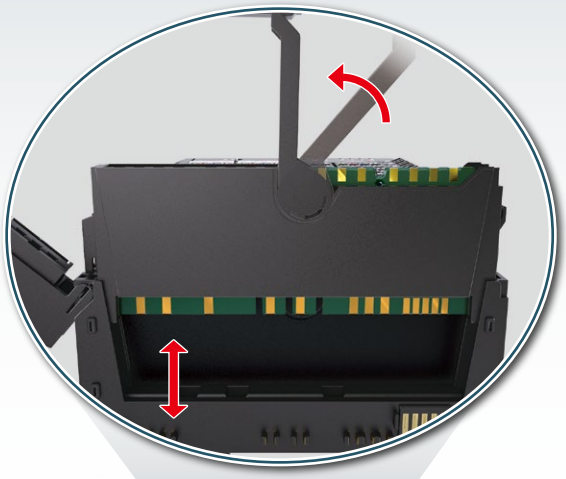




Web server

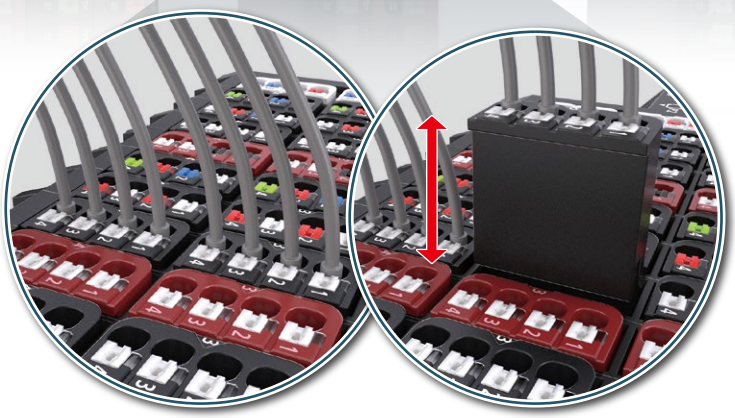
Dedicated software Web server

The built-in Web server enables parameter setting even before a system is established. Additionally, error status can be checked on the Web server screen, helping to reduce system downtime.



Supporting hot swap

Without turning the power off, modules can be attached or detached, reducing the machine downtime.

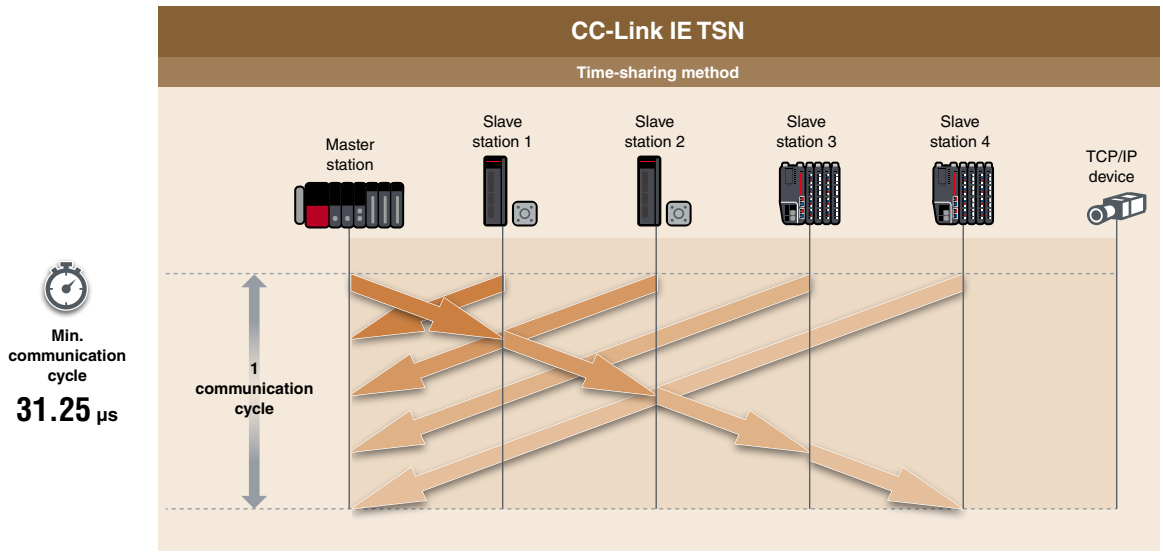


Detachable push-in type connector

Devices such as sensors and actuators can be connected to the slice I/O module with detachable push-in type connectors. Those connectors can be easily attached and detached, eliminating maintenance such as retightening of screws.

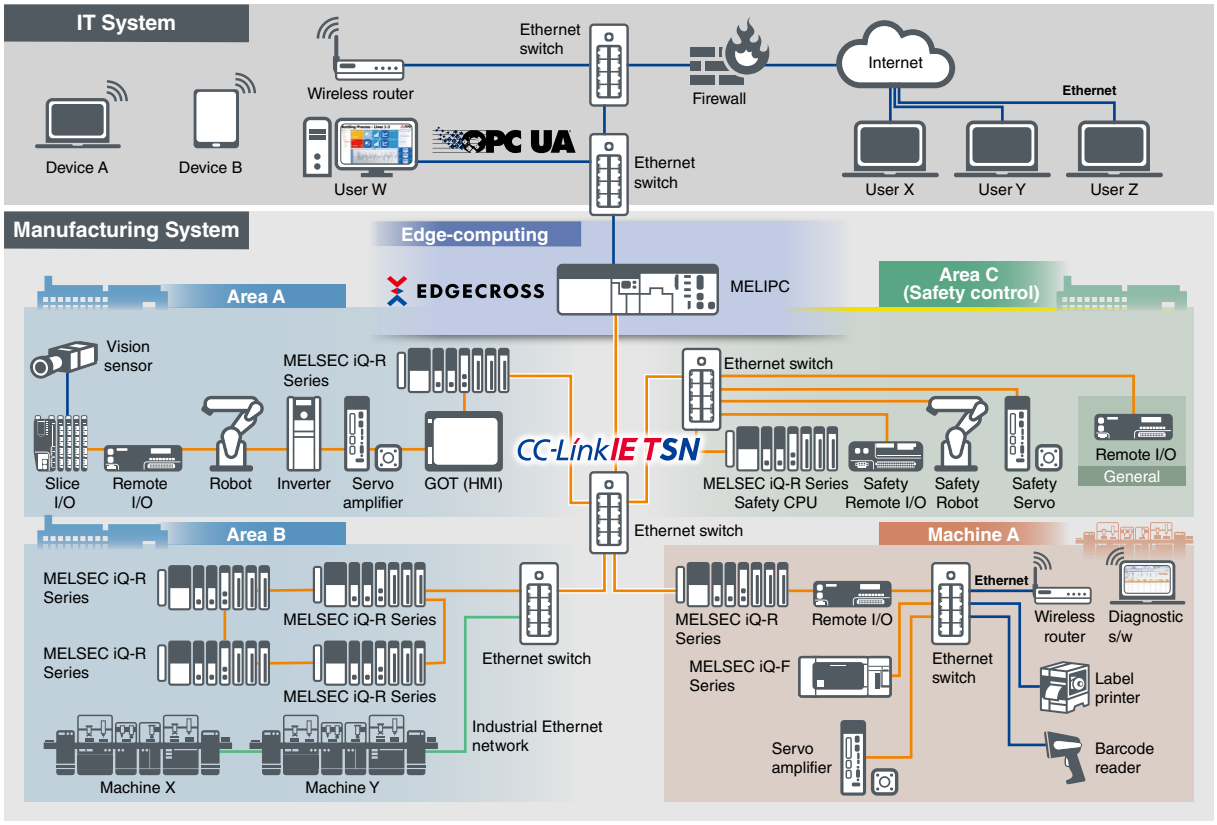
CC-Link IE TSN compatible module improves productivity with high speed processing

With the addition of the CC-Link IE TSN compatible coupler, the slice I/O supports CC-Link IE TSN. The advanced protocol built into CC-Link IE TSN is complemented by the time-sharing method functionality that enables bidirectional communications between network stations. This realizes fast communication cycle time of just 31.25 µs, resulting in high-speed, highly accurate motion control. Productivity is simultaneously improved owing to a substantial increase in control performance, which reduces overall operating time.



CC-Link IE TSN - Open integrated network across the manufacturing enterprise -

CC-Link IE TSN supports TCP/IP communications and applies it to industrial architectures through its support of TSN enabling real-time communications. With its flexible system architecture and extensive setup and troubleshooting features make CC-Link IE TSN ideal for building an IIoT infrastructure across the entire manufacturing enterprise.



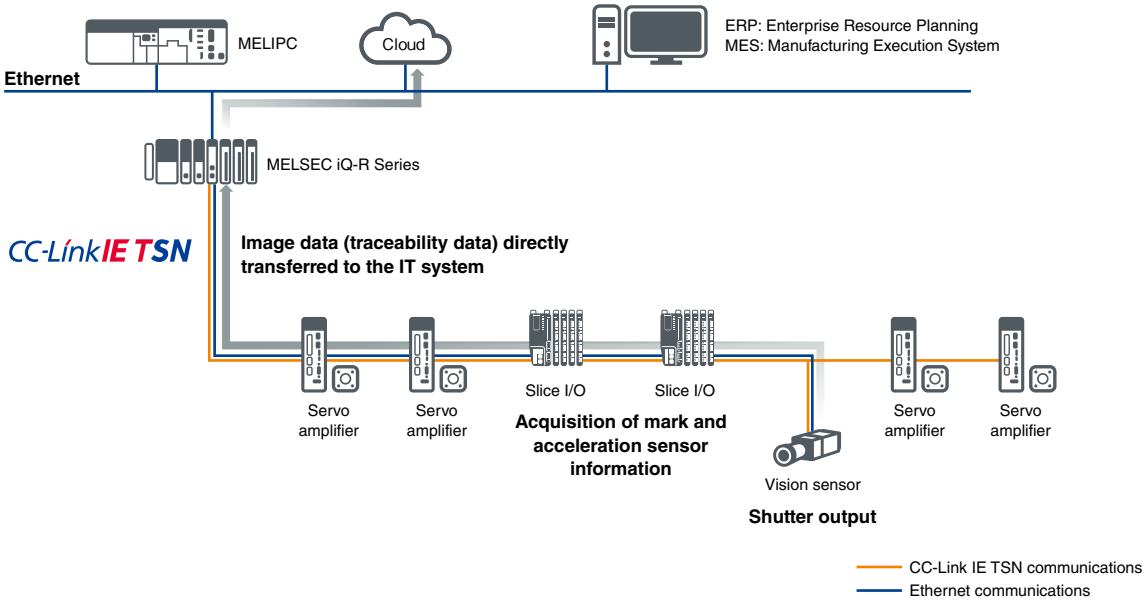
Product list

Slice I/O module specifications

Item		Specifications
Couplers		
NZ2FT-GN NEW		CC-Link IE TSN supported
NZ2FT-BT NEW		CC-Link supported
NZ2FT-PN NEW		PROFINET® supported
NZ2FT-PBV		PROFIBUS® DP-V0/V1 supported
NZ2FT-MT		MODBUS®/TCP supported
NZ2FT-EIP		EtherNet/IP™ supported
I/O modules		
DC input	NZ2FTS4-4DE	4 points, 24 V DC, negative common, 4-wire
	NZ2FTS3-8DE	8 points, 24 V DC, negative common, 3-wire
	NZ2FTS1-16DE	16 points, 24 V DC, negative common, 1-wire
	NZ2FTS4-4D NEW	4 points, 24 V DC, positive common, 4-wire
	NZ2FTS3-8D NEW	8 points, 24 V DC, positive common, 3-wire
	NZ2FTS1-16D NEW	16 points, 24 V DC, positive common, 1-wire
AC input	NZ2FTS2-4A NEW	4 points, 110…230 V AC, 2-wire
Transistor output	NZ2FTS4-4TE	4 points, 24 V DC (0.5 A), source type, 4-wire
	NZ2FTS2-8TE	8 points, 24 V DC (0.5 A), source type, 2-wire
	NZ2FTS1-16TE	16 points, 24 V DC (0.5 A), source type, 1-wire
	NZ2FTS4-4T NEW	4 points, 24 V DC (0.5 A), sink type, 4-wire
	NZ2FTS2-8T NEW	8 points, 24 V DC (0.5 A), sink type, 2-wire
	NZ2FTS1-16T NEW	16 points, 24 V DC (0.5 A), sink type, 1-wire
Contact output	NZ2FTS3-4R NEW	4 points, 255 V AC/24 V DC (6 A), 3-wire
Analog input module		
NZ2FTS-60AD4		4 channels, –10…10 V DC, 0…20 mA DC, conversion speed: 1 ms/CH
Analog output module		
NZ2FTS-60DA4		4 channels, –10…10 V DC, 0…20 mA DC, conversion speed: 1 ms/4 CH
Temperature input modules		
NZ2FTS-60RD4		4 channels, RTD input
NZ2FTS-60TD4 NEW		4 channels, thermocouple input
High-speed counter module		
NZ2FTS-D62P2		2 channels, 24 V DC
Absolute encoder module		
NZ2FTS-D66D1		1 channel, SSI absolute encoder input
Serial communication module		
NZ2FT-C24 NEW		RS-232/RS-485/RS-422: 1 channel
Extension power supply modules		
For input modules	NZ2FTPDI	DC power supply, 24 V DC
For output modules	NZ2FTPDO	DC power supply, 24 V DC

Application - Printing machines -

Printing machines now require multiple functionality that enables efficient production of printed media in various runs, shapes and colors while maintaining high-quality print and productivity. The CC-Link IE TSN compatible slice I/O module enables highly accurate synchronization of multiple axes between various printing processes such as converting (paper infeed/outfeed), printing, processing, binding, and sorting. Together with the integration of various sensors, highly scalable printing systems can be realized.



Factory Automation Systems Sales Offices Europe, Middle East & Africa

Germany
MITSUBISHI ELECTRIC Europe B.V.
Mitsubishi-Electric-Platz 1, 40882 Ratingen
Tel: +49-2102-486-0

Czech Republic
MITSUBISHI ELECTRIC Europe B.V.
Radlická 751/113e Avenir Business Park
CZ-158 00 Praha 5
Tel: +420-251-551-470

France
MITSUBISHI ELECTRIC Europe B.V.
25, Boulevard des Bouvets
F-92741 Nanterre Cedex
Tel: +33-1-55-68-55-68

Italy
MITSUBISHI ELECTRIC Europe B.V.
Viale Colleoni 7 Palazzo Sirio
I-20864 Agrate Brianza (MB)
Tel: +39-039-60531

Ireland
MITSUBISHI ELECTRIC Europe B.V.
Westgate Business Park, Ballymount
IRL-Dublin 24
Tel: +353-1-4198800

Netherlands
MITSUBISHI ELECTRIC Europe B.V.
Nijverheidsweg 23a, NL-3641RP Mijdrecht
Tel: +31-297250350

Poland
MITSUBISHI ELECTRIC Europe B.V.
ul. Krakowska 50, PL-32-083 Balice
Tel: +48-12-347-65-00

Russia
MITSUBISHI ELECTRIC (Russia) LLC
52, bld. 1 Kosmodamianskaya emb.
RU-115054 Moscow
Tel: +7-495-721-2070

Spain
MITSUBISHI ELECTRIC Europe B.V.
Carretera de Rubí 76-80 Apdo. 420
E-08190 Sant Cugat del Vallés (Barcelona)
Tel: +34-935-65-3131

Sweden
MITSUBISHI ELECTRIC Europe B.V. (Scandinavia)
Fjelievägen 8, SE-22736 Lund
Tel: +46-8-625-10-00

Turkey
MITSUBISHI ELECTRIC Turkey Elektrik Ürünleri A.Ş.
Şerifali Mahallesi Nutuk Sokak No:5
TR-34775 Ümraniye-İSTANBUL
Tel: +90-216-526-3990

United Arab Emirates
MITSUBISHI ELECTRIC Europe B.V.
Dubai Silicon Oasis, United Arab Emirates
Tel: +971-4-3724716

United Kingdom
MITSUBISHI ELECTRIC Europe B.V.
Travellers Lane, Hatfield, Herts. AL10 8XB
Tel: +44-1707-28-8780

MITSUBISHI ELECTRIC CORPORATION
HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
www.MitsubishiElectric.com

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