

Impact on MELSEC Programmable Controllers due to Noncompliance of Toyobo's PBT Resin with UL Requirements

■Date of Issue

December 2020 (Ver.C: May 2022)

■Relevant Models

R60AD4, R60ADH4, R60ADI8, R60ADV8, R60DA4, R60DAH4, R60DAI8, R60DAV8, R60TCRT4, R60TCRT4BW, R60TCTRT2TT2, R60TCTRT2TT2BW, RD60P8-G, RX10, RX28, RX40C7, RX40NC6H, RX40PC6H, RX70C4, RY10R2, RY18R2A, RY20S6, RY40NT5P, RY40PT5P, QY13L

Thank you for your continued support of Mitsubishi Electric programmable controllers.

On October 28, 2020, Toyobo Co., Ltd. announced that UL certification for its polybutylene terephthalate (PBT) resin "PLANAC®" will be sequentially rescinded due to partial nonconformity of the performance data.

For more details, please refer to the following notice published on the website of Toyobo Co., Ltd.

https://ir.toyobo.co.jp/en/ir/news/news-524744591470138456/main/0/link/press_20201028_1_e_0.pdf

We will report the impact on the Mitsubishi Electric programmable controllers and the countermeasures.

1 IMPACT ON MITSUBISHI ELECTRIC PRODUCTS AND COUNTERMEASURES

UL certificate for "PLANAC®" is rescinded; as a result, the parts which include "PLANAC®" are not UL certified parts.

Therefore, the UL mark is to be removed from the target parts and the programmable controllers which use these parts.

(☞ Page 3 TARGET PRODUCTS AND RECOMMENDED ALTERNATIVE PRODUCTS)

However, we had confirmed that there are no safety issues in Mitsubishi Electric programmable controllers, and this includes the products already on the market.

2 FUTURE ACTIONS

We will apply for UL certification of target parts.

As soon as certification is obtained, the UL mark will be indicated on the target parts. However, it is expected to take some time to obtain certification. When UL certification is required, please consider using alternative products.

For the MELSEC iQ-R series models, re-indication of the UL mark has been started from the products manufactured in May 2021. For the QY13L, re-indication of the UL mark has been started from the products manufactured in December 2021.

For details, refer to the following.

📖 Re-indication of the UL Mark on MELSEC Programmable Controllers (Related to Noncompliance of Toyobo's PBT Resin with UL Requirements) (FA-A-0338)

FA-A-0323-C

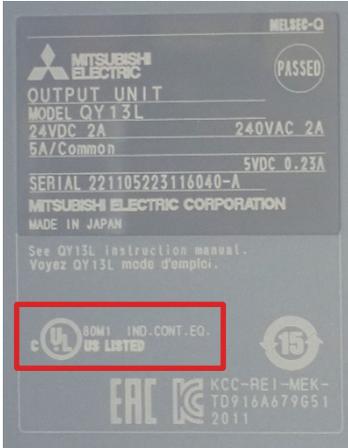
3 DETAILS ON THE CHANGE

The UL mark will be removed from the target parts and the products which use these parts.

3.1 MELSEC iQ-R Series

Before change (with a UL mark)	After change (without a UL mark)
 <p>MELSEC iQ-R MITSUBISHI ELECTRIC PASSED OUTPUT UNIT MODEL RY10R2 24VDC/240VAC 2A 8A/Common 5VDC 0.45A SERIAL 00094C0815310371-E MITSUBISHI ELECTRIC CORPORATION TOKYO 100-8310 JAPAN MADE IN JAPAN See RY10R2 instruction manual. Voyez RY10R2 mode d'emploi. UL US LISTED KCC-RE1-MEK-TD917A311651 IND. CONT. EQ. 80M1 IND. CONT. EQ. FOR HAZ. LOC. 4850 C.L. 1, DIV. 2, Gr. A, B, C, D 0518500C EAC</p>	 <p>MELSEC iQ-R MITSUBISHI ELECTRIC PASSED OUTPUT UNIT MODEL RY10R2 24VDC/240VAC 2A 8A/Common 5VDC 0.45A SERIAL 00094C0815310371-E MITSUBISHI ELECTRIC CORPORATION TOKYO 100-8310 JAPAN MADE IN JAPAN See RY10R2 instruction manual. Voyez RY10R2 mode d'emploi. KCC-RE1-MEK-TD917A311651 DATE 2017-12 EAC</p>

3.2 MELSEC-Q Series

Before change (with a UL mark)	After change (without a UL mark)
 <p>MELSEC-Q MITSUBISHI ELECTRIC PASSED OUTPUT UNIT MODEL QY13L 24VDC 2A 240VAC 2A 5A/Common 5VDC 0.23A SERIAL 221105223116040-A MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN See QY13L instruction manual. Voyez QY13L mode d'emploi. UL 80M1 IND. CONT. EQ. US LISTED EAC KCC-RE1-MEK-TD916A679G51 2011</p>	 <p>MELSEC-Q MITSUBISHI ELECTRIC PASSED OUTPUT UNIT MODEL QY13L 24VDC 2A 240VAC 2A 5A/Common 5VDC 0.23A SERIAL 221105223116040-A MITSUBISHI ELECTRIC CORPORATION MADE IN JAPAN See QY13L instruction manual. Voyez QY13L mode d'emploi. EAC KCC-RE1-MEK-TD916A679G51 2011</p>

4 TARGET PRODUCTS AND RECOMMENDED ALTERNATIVE PRODUCTS

The following table lists the target products and recommended alternative products. The target products include special coated products.

4.1 MELSEC iQ-R Series Analog Module

Target model	Alternative model	
	MELSEC iQ-R series	When a MELSEC-Q series model or RQ extension base unit is used
R60AD4	—	Q64AD ^{*1}
R60ADH4	—	Q64ADH ^{*1}
R60ADI8	—	Q68ADI ^{*1}
R60ADV8	—	Q68ADI ^{*1}
R60DA4	—	Q64DAN ^{*1}
R60DAH4	—	Q64DAH ^{*1}
R60DAI8	—	Q68DAIN ^{*1}
R60DAV8	—	Q68DAVN ^{*1}
RD60P8-G	—	QD60P8-G
R60TCTRT2TT2	—	Q64TCTTN
R60TCTRT2TT2BW	—	Q64TCTTBWN
R60TCRT4	—	Q64TCRTN
R60TCRT4BW	—	Q64TCRTBWN

*1 The alternative model has differences from the target model in terms of performance and functions. For details, refer to the manual of the model used.

4.2 MELSEC iQ-R Series I/O Module

Target model	Alternative model	
	MELSEC iQ-R series	When a MELSEC-Q series model or RQ extension base unit is used
RX10	RX10-TS ^{*1}	QX10
RX28	—	QX28
RX40C7	RX40C7-TS ^{*1}	QX40 or QX80
RX40NC6H	—	QX80H
RX40PC6H	—	QX40H
RX70C4	—	QX70
RY10R2	RY10R2-TS ^{*1}	QY10
RY18R2A	—	QY18
RY20S6	—	QY22
RY40NT5P	RY40NT5P-TS ^{*1}	QY40P
RY40PT5P	RY40PT5P-TS ^{*1}	QY80 ^{*2}

*1 The alternative model requires a spring clamp terminal block for the external interface.

*2 The alternative model has a fuse as its protection function.

FA-A-0323-C

4.3 MELSEC-Q Series I/O Module

Target model	Alternative model	
	MELSEC-Q series	FA goods (partner products)
QY13L	QY10 (two units)	QY41P + FA-TH16YRA11S (two units) ^{*1*2}

*1 This product is an item of the FA goods manufactured by Mitsubishi Electric Engineering Co., Ltd.

*2 Use the FA-CBL**FM2V connection cable.

REVISIONS

Version	Date of Issue	Revision
A	December 2020	First edition
B	June 2021	Addition of QY13L to the relevant models Addition of timing to start re-indication of the UL mark on the MELSEC iQ-R series
C	May 2022	Addition of timing to start re-indication of the UL mark on the QY13L Correction of revision details of version B

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