

以下の海外法規、規格に対応しています。
The Products conform to the following regulations and standards.

1. UL認証/UL Certification

UL(Underwriter's Laboratories Inc.)の認証を受けています。
The V680-HAM42-FRT has been certified by UL.

下記の(1)または(2)の回路に接続してご使用ください。

(1)制限電圧電流回路 (UL508で認定されたもの)
次の条件を満足する絶縁トランスの2次側巻線を電源とする回路

- ・最大電圧(無負荷時):30Vrms(42.4Vピーク)以下
- ・最大電流:①8A以下(短絡時を含む)または②下表の定格を持つ回路保護器(ヒューズ等)で制限されている場合

無負荷電圧(Vrms)	最大電流定格(A)
0~20	5.0
20を超え30まで	100 ピーク電圧値

(2)UL1310に従うクラス2電源ユニットまたはUL1585に従うクラス2トランスを電源とする最大電圧30Vrms(42.4Vピーク)以下の回路(クラス2回路)

Connect to either circuit type (1) or (2) listed below.

(1) Limited Voltage/Current Circuit (Approved under UL 508)

A circuit that uses the secondary windings of an isolation transformer as its power supply and fulfills the following conditions:

- ・ Maximum voltage: (with no load): 30 Vrms (42.4 V peak) and
- ・ Maximum current: (a) 8 A (including short-circuits) or (b) Current limited by a circuit protection device (e.g., fuse) with the ratings listed in the following table.

Open circuit voltage (Vrms)	Maximum current rating (A)
0 to 20	5.0
Over 20 to 30	100 Peak voltage

(2) A class 2 circuit with a maximum voltage of 30 Vrms (42.4 V peak) that uses a class 2 power unit conforming to UL 1310 or a class 2 transformer conforming to UL 1585 as its power source.

2. 米国/The United States

FCC Part 15 Subpart C

FCC ID	FLリモートID/ FL Remote ID	アンテナ/Antenna
E4E6CYSIDV6800507	V680-HAM42-FRT	V680-HS52 V680-HS63 V680-HS63-SP

FCC NOTICE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Do not remove the ferrite core (TDK Type ZCAT1730-0730A) installed on the cables to suppress RF interference. And attach the accompanying ferrite core (TDK Type ZCAT2032-0930) around the cables that are connected with the power and grounding terminals.

FCC Part15 subpart B

NOTICE

This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

3. 欧州/Europe

規格/Standards	FLリモートID/ FL Remote ID	アンテナ/Antenna
RE(無線機器)指令 Radio Equipment Directive 2014/53/EU ・無線規格(Radio): EN300 330 ・EMC規格: EN 301 489-1 ・安全規格(Safety): EN 61010-1 ・人体防護規格: EN 50364 (Human exposure)	V680-HAM42-FRT	V680-HS52 V680-HS63 V680-HS63-SP



4. 日本/Japan

高周波利用設備 誘導式読み書き通信設備適合規格 誘導式読み書き通信設備
標準規格 ARIB STD-T82

Equipment using high frequencies: Inductive Reading/Writing Communications Equipment
Standard: ARIB STD-T82

指定番号/Assigned	FLリモートID/ FL Remote ID	アンテナ/Antenna
第EC-07022号	V680-HAM42-FRT	V680-HS51 V680-HS52 V680-HS63 V680-HS63-SP V680-HS65

5. カナダ/Canada

IC ID	FLリモートID/ FL Remote ID	アンテナ/Antenna
850J-V6800507	V680-HAM42-FRT	V680-HS52 V680-HS63 V680-HS63-SP

This device complies with Industry Canada licence-exempt RSS standards. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ICES-003

This class A digital apparatus complies with Canadian ICES-003.

Cat appareil numerique de la classe A est conforme a la norme NMB-003 du Canada.

6. 中国/China

規則/Regulation	FLリモートID/ FL Remote ID	アンテナ/Antenna
中华人民共和国 工业和信息化部公告 2019年 第52号	V680-HAM42-FRT	V680-HS63-SP

- (一) 本产品符合“微功率短距离无线电发射设备目录和技术要求”如下条款:
具体条款: 通用微功率设备 C类设备
(1)使用频率: 13553-13567kHz
(2)10米处磁场强度: 不大于42dB μ A/m (准峰值检波)
(3)频率容限: 100 \times 10⁻⁶
(4)特殊频带辐射发射: 对于13553-13567kHz 频段设备、频段两端偏移140kHz 频率范围的10 米处磁场强度不大于9dB μ A/m (准峰值检波)
使用场景: 通用
采用的天线类型: V680-HS63-SP
控制、调整及开关等使用方法: 不适用
- (二) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率(包括额外加装射频功率放大器), 不得擅自更改发射天线;
- (三) 不得对其他合法的无线电台(站)产生有害干扰, 也不得提出免受有害干扰保护;
- (四) 应当承受辐射射能量的工业、科学及医疗(ISM)应用设备的干扰或其他合法的无线电台(站)干扰;
- (五) 如对其他合法的无线电台(站)产生有害干扰时, 应立即停止使用, 并采取措施消除干扰后方可继续使用;
- (六) 在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站(含测控、测距、接收、导航站)等军民用无线电台(站)、机场等的电磁环境保护区域内使用微功率设备, 应当遵守电磁环境保护及相关行业主管部门的规定;
- (七) 禁止在以机场跑道中心点为圆心、半径5000米的区域内使用各类模型遥控器;
- (八) 微功率设备使用时温度的环境条件: -10~+55 $^{\circ}$ C
电压的环境条件: 直流20.4~26.4V

7. ベトナム/Vietnam

管理番号/Control number	FLリモートID/ FL Remote ID	アンテナ/Antenna
A00322015	V680-HAM42-FRT	V680-HS51 V680-HS52 V680-HS63 V680-HS63-SP V680-HS65

