



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 19ATEX3121X** Issue: **1**

4 Equipment: **8782 Slurry Transmitter and MS Slurry Sensor**

5 Applicant: **Emerson – Rosemount, Micro Motion, Inc.**

6 Address: 12001 Technology Dr.
Eden Prairie
Minnesota 55344 USA

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012/A11:2013
EN IEC 60079-0:2018

EN 60079-7:2015
EN 60079-11:2012

EN 60079-15:2010
EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:

MS Slurry Sensor

II 3G
Ex ec ic IIC T6...T3 Gc
Ex ic nA IIC T6...T3 Gc
Ta = -50°C to +60°C*
Ta = -29°C to +60°C**
* Stainless Steel Enclosure
** Carbon Steel Enclosure



8782 Slurry Transmitter

II 3D
Ex ic tc IIIC T80°C Dc
Ta = -40°C to +60°C

Project Number 5301

Signed:

Title: Director of Operations

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CSA Group Netherlands B.V.
Utrechtseweg 310,
6812 AR, Arnhem,
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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 19ATEX3121X
Issue 1

13 DESCRIPTION OF EQUIPMENT

The Model 8782 Slurry Transmitter is a magnetic flowmeter transmitter that, when combined with the MS Flow Tubes, measures the volumetric flow rate of a conductive fluid in a pipe. The enclosure is comprised of aluminum housing approximately 0.256 m Height x 0.208 m Width x 0.071 m Thickness. The enclosure is comprised of two compartments, a field wiring compartment and an electronics compartment. Each compartment is provided with its own hinged door. The enclosure also has an optional LOI display and keypad that is attached in the electronics compartment. The 8782 Slurry Transmitter is designed to only connect to the model MS flow tube.

The enclosure is provided with 4 1/2" NPT conduit entries on the bottom of the enclosure for field wiring, and optional 1/2" NPT to M20 thread adapters supplied with the equipment.

The 8782 Slurry Transmitter can be supplied to be powered from either a 90 to 250Vac 50/60Hz source, a 12-48 Vdc source, or 12-42 Vdc source. Each transmitter is programmed to have an IS output for the sensor electrode circuit, and a non-IS output for the Sensor Coil circuit. The transmitters are also equipped with two DIO circuits that are internally galvanically isolated. The transmitter communicates through a 4-20 mA/HART, a FIELDBUS/ PROFIBUS/FISCO, a MODBUS circuit and a pulse circuit, and they can be configured as intrinsically safe depending on the model option.

Entity Parameters for 8782 Slurry Transmitter

4-20 mA HART Circuit (Terminals 7 and 8):

$U_i = 30 \text{ V}$; $I_i = 300 \text{ mA}$; $P_i = 1.0 \text{ W}$; $C_i = 924 \text{ pF}$; $L_i = 0.0 \text{ mH}$

FF/PA/FISCO field Device Circuit (Terminals 7 and 8):

$U_i = 30 \text{ V}$; $I_i = 380 \text{ mA}$; $C_i = 924 \text{ pF}$; $L_i = 0.0 \text{ mH}$ (Non-FISCO)

$U_i = 30 \text{ V}$; $I_i = 380 \text{ mA}$; $P_i = 5.32 \text{ W}$; $C_i = 924 \text{ pF}$; $L_i = 0.0 \text{ mH}$ (FISCO)

Pulse Circuit (Terminals 5 and 6):

$U_i = 28 \text{ V}$; $I_i = 100 \text{ mA}$; $P_i = 1.0 \text{ W}$; $C_i = 4.5 \text{ pF}$; $L_i = 0.0 \text{ mH}$

Electrode Output Circuit (Terminals 17, 18, 19):

$U_m = 250 \text{ V}$; $U_o = 28.56 \text{ V}$; $I_o = 5.77 \text{ mA}$; $P_o = 165 \text{ mW}$; $C_o = 61.7 \text{ nF}$; $L_o = 1.0 \text{ H}$

The MS Slurry Sensor is installed in-line with process piping, either vertically or horizontally. Coils located on opposite sides of the flow tube create the necessary magnetic field. A conductive liquid moving through the magnetic field generates a voltage that is detected by two electrodes.

The enclosure of the flow tube consists of two parts the junction box, and the tube. The junction box has two 1/2" NPT entries or M20 entries and contains a field wiring terminal.

There are two input circuits included in the MS flow tube. The circuits can be supplied by the Emerson remote mount transmitter models, 8712EM, 8732EM, or 8782. The MS flow tube has a connection for the coil circuit which is used to generate the magnetic field, and a connection for the electrode circuit which is used to read a voltage created by the flowing process in the magnetic field. The electrode circuit is an intrinsically safe circuit in all explosive gas installations.

Entity Parameters for MS Slurry Sensor Electrode Circuit (Terminals 17, 18, 19):

$U_i = 30 \text{ V}$; $I_i = 50 \text{ mA}$; $P_i = 1.0 \text{ W}$; $C_i = 1.9 \text{ nF}$; $L_i = 630 \text{ }\mu\text{H}$



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

**Sira 19ATEX3121X
Issue 1**

8782 Slurry Transmitter

Model :8782abcdeffgg
a = Revisions Level: A
b = Transmitter Mounting Options: W
c = Power Supply: 1 or 2
d = Transmitter Outputs: A, B, F, P, D or M
e = Conduit Entry: 1 or 2
ff = Safety Approvals Code Options: N1, N7, N9, ND, NF
gg = Any Alpha-Numeric characters representing product options up to fifty digits.

MS Slurry Sensor:

Model: MSaaabcdefghijklmnopklm
aaa = Line size: 030 – 360(3-36 inch)
b = Rev level: A
c= Mounting option: R = Remote
d = Conduit Entry: 1=1/2" NPT, 2= M20
e = Lining Material: Any one digit alpha or numeric character
f = Electrode Material: Any one digit alpha or numeric character
g = Electrode Type: Any one digit alpha or numeric character
h = Flange Material: Any one digit alpha or numeric character
i = Flange Type: Any one digit alpha or numeric character
j = Flange Rating: Any one digit alpha or numeric character
kk = Coil Housing Configuration: M0, M1, M2, or M4.
ll = Safety Approval Options: K1, K7, K9, N1, N7, N9, ND, NF
m = Options: Any Alpha-Numeric characters representing non-safety product options up to fifty-two digits in length.

14 **DESCRIPTIVE DOCUMENTS**

14.1 **Drawings**

Refer to Certificate Annexe.

14.2 **Associated Sira Reports and Certificate History**

Issue	Date	Report number	Comment
0	25 November 2019	R80008852A	The release of the prime certificate.
1	20 January 2020	5301	Transfer of certificate Sira 19ATEX3121X from Sira Certification Service to CSA Netherlands B.V.

15 **SPECIFIC CONDITIONS OF USE**

15.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.

15.2 The MS Slurry Sensor is intended for use only in combination with the 8782, 8732EM, 8712EM Transmitters or a Transmitter with equivalent or less output ratings.

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 19ATEX3121X
Issue 1

- 15.3 Appropriately rated conduit entries must be installed to maintain the enclosure ingress ratings of IP66, IP68 or IP69.
- 15.4 In order to maintain the ingress protection level on the M4 electrode housing for the MS Flow Tube, the copper crush washer that seals the electrode access plug shall be replaced when the plug is reinstalled. The copper crush washer is one time use only.
- 15.5 When "Special Paint Systems" are applied, instructions for safe use regarding potential electrostatic charging hazard have to be followed
- 15.6 The MS Slurry Sensor is not allowed to be thermally insulated.
- 15.7 The 8782 Slurry Transmitter and the MS Slurry Sensor are permanently (conduit) connected, intended for continuous operation in extended environmental conditions as specified. Overvoltage Category II, Pollution Degree 2.
- 15.8 The 8782 Slurry Transmitter electrode and coil circuits can be remotely connected to the 8707 Sensor or MS Slurry Sensor
- 15.9 The 8782 Slurry Transmitter is suitable for field wiring wire gauges of 22 AWG to 10 AWG that are to be tightened down with a torque of 1.2 Nm.
- 15.10 The MS Slurry Sensor is suitable for field wiring wire gauges of 14 AWG to 16 AWG that are to be tightened down with a torque of 1.2 Nm.
- 15.11 The temperature code, ambient temperature range, and maximum process temperature for the MS Slurry Sensor are as follows:

Hazardous Gas Locations (Group IIC)

T-Code	Coil Housing Material	Line Size	Ambient Temperature Range	Maximum Process Temperature
T6	Carbon Steel	All	-29°C to 35°C	45°C
T5	Carbon Steel	3"	-29°C to 60°C	60°C
T4	Carbon Steel	3"	-29°C to 60°C	105°C
T3	Carbon Steel	3"	-29°C to 60°C	177°C
T5	Carbon Steel	4"-36"	-29°C to 60°C	65°C
T4	Carbon Steel	4"-36"	-29°C to 60°C	110°C
T3	Carbon Steel	4"-36"	-29°C to 60°C	177°C
T6	Stainless Steel	All	-50°C to 35°C	45°C
T5	Stainless Steel	3"	-50°C to 60°C	60°C
T4	Stainless Steel	3"	-50°C to 60°C	105°C
T3	Stainless Steel	4"-36"	-50°C to 60°C	177°C
T5	Stainless Steel	4"-36"	-50°C to 60°C	65°C
T4	Stainless Steel	4"-36"	-50°C to 60°C	110°C
T3	Stainless Steel	4"-36"	-50°C to 60°C	177°C

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed reports listed in Section 14.2.

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Certificate Annexe



Certificate Number: Sira 19ATEX3121X

Equipment: 8782 Slurry Transmitter and MS Slurry Sensor

Applicant: Emerson – Rosemount, Micro Motion, Inc.

Issue 0

Drawing	Rev.	Sheets	Date (Sira stamp)	Title
000MS-00AT	AA	1 to 2	24 Sep 2019	MS ATEX Label Drawing
000MS-0020	AA	1 to 9	24 Sep 2019	MS Control Drawing. Increased Safety with Intrinsically Safe Electrode
000MS-0023	AA	1 to 9	24 Sep 2019	MS Control Drawing. Type 'n' and Type 'e' with intrinsically safe electrode.
08782-00AT	AA	1 to 3	18 Nov. 2019	8782 Transmitter ATEX Label Drawing
08782-0023	AA	1 to 8	24 Sep 2019	8782 Transmitter Control Drawing – IECEx/ATEX 'e' and 'i'
08782-0024	AA	1 to 8	24 Sep 2019	8782 Transmitter Control Drawing – IECEx/ATEX 't'
08782-0060	AA	1 to 12	24 Sep 2019	INSTALLATION DRAWING ATEX/IECEx HAZARDOUS (Ex) LOCATIONS
00825-MA00-0010	AA	1 to 32	02 Oct 2019	Rosemount 8782 and MS Sensor Approval Document
03031-0383	AF	1 to 2	02 Oct 2019	Ground Terminal Assembly
03144-1010	AT	1 to 2	02 Oct 2019	Cover, Aluminum
03144-1074	AH	1 of 1	02 Oct 2019	Cover, Stainless Steel
08701-0065	AC	1 of 1	02 Oct 2019	Coil Shield – 12"
08701-0077	AK	1 of 1	02 Oct 2019	Coil Stud
08701-0187	AG	1 to 2	02 Oct 2019	Coil Shield – 14" to 36"
08701-0304	A	1 of 1	02 Oct 2019	Coil Support 30" and 36"
08705-0201	AM	1 to 4	02 Oct 2019	Tube Adapter
08705-0202	AD	1 of 1	02 Oct 2019	Glass Header (Hermetically Sealed)
08705-0207	AC	1 to 2	02 Oct 2019	Spigot Ring
08705-0209	AJ	1 to 4	02 Oct 2019	Side Wrapper, Carbon Steel
08705-0212	AK	1 to 2	02 Oct 2019	Glass Header Assembly
08705-0213	AH	1 to 3	02 Oct 2019	Flow Tube Center Wrapper
08705-0221	AA	1 of 1	02 Oct 2019	Tube Adapter Schematic
08705-0222	AE	1 to 3	02 Oct 2019	Tube Adapter PCB
08705-0223	AI	1 to 4	19 Nov 2019	Tube Adapter Assembly
08705-0224	AE	1 to 2	02 Oct 2019	Tube Adapter Cap
08705-0226	AA	1 to 4	02 Oct 2019	Encapsulant – Sylgard 170
08705-0228	AC	1 to 3	02 Oct 2019	Tube Adapter
08705-1004	BD	1 of 1	02 Oct 2019	Wrapper Ring
08705-1006	AI	1 to 2	02 Oct 2019	Glass Header Feedthrough
08705-1016	AC	1 to 4	02 Oct 2019	Electrode Assembly
08705-1038	AE	1 to 2	02 Oct 2019	Electrode Compartment Cap
08705-1050	AJ	1 to 7	02 Oct 2019	Electrode Compartment
08707-0161	AM	1 to 5	02 Oct 2019	Coil Shield – 1.5" to 5"
08707-0162	AG	1 of 1	02 Oct 2019	Coil Shield – 6" to 10"
08707-3001	AE	1 to 2	02 Oct 2019	Coil
08707-3034	AH	1 of 1	02 Oct 2019	Coil Assembly

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Equipment: 8782 Slurry Transmitter and MS Slurry Sensor

Applicant: Emerson – Rosemount, Micro Motion, Inc.

Drawing	Rev.	Sheets	Date (Sira stamp)	Title
08732-0140	AT	1 to 2	02 Oct 2019	Tube Adapter
08732-0222	AN	1 of 1	02 Oct 2019	Nulling Printed Circuit Assembly
08732-0300	AG	1 to 3	02 Oct 2019	Junction Box, Aluminum
08732-0302	AB	1 to 2	02 Oct 2019	Remote Mount Terminal Block Schematic
08732-0303	AE	1 to 2	02 Oct 2019	Remote Mount Terminal Block PWB
08732-0304	AA	1 to 1	02 Oct 2019	Remote Mount Terminal Block W/ Connectors Schematic
08732-0305	AC	1 to 2	02 Oct 2019	Remote Mount Terminal Block W/ Connectors PWB
08732-0306	AD	1 of 1	02 Oct 2019	Socket Module Retaining Cup for Encapsulant
08732-0307	AE	1 of 1	02 Oct 2019	Remote Mount Terminal Block Shroud with Integral Terminal Block
08732-0308	AE	1 to 2	02 Oct 2019	Terminal Block Divider
08732-0310	AD	1 to 3	02 Oct 2019	Junction Box, Stainless Steel
08732-0313	AI	1 to 4	02 Oct 2019	Remote Mount Terminal Block Assembly
08732-0314	AA	1 of 1	02 Oct 2019	Socket Module Schematic
08732-0315	AD	1 to 2	02 Oct 2019	Socket Module PWB
08732-0316	AG	1 to 3	02 Oct 2019	Socket Module CCA
08732-0317	AE	1 to 2	02 Oct 2019	Socket Module Assembly
08732-0318	AB	1 to 2	02 Oct 2019	Oxy-cast Epoxy, 2-Part
08732-0329	AA	1 of 1	02 Oct 2019	O-Ring (Buna-N)
C10213	AP	1 to 5	02 Oct 2019	Flat Washer
C10984	AL	1 to 2	02 Oct 2019	O-Ring (Ethylene –Propylene)
C11035	AG	1 to 5	02 Oct 2019	Hex Nut
C11397	AE	1 to 5	02 Oct 2019	Ground Screw
C12214	AF	1 to 4	02 Oct 2019	Mounting Bolt
C50096	AE	1 to 3	02 Oct 2019	Lock Washer
C50243	AK	1 to 3	02 Oct 2019	O-Ring – Silicone Rubber
C50276	E	1 to 3	02 Oct 2019	Ground Electrode Wire
C53583	AD	1 to 3	02 Oct 2019	Remote Mount Terminal Block Potting Material
C53633	B	1 to 3	02 Oct 2019	Tyco Amp Connector
C53980	AC	1 to 4	02 Oct 2019	M6 Plug
C54049	AG	1 to 6	02 Oct 2019	Cushioned Clamp
C54052	AA	1 to 3	02 Oct 2019	Ring- Tongue Terminal
C54095	AD	1 to 3	02 Oct 2019	Epoxy, 2-part
C55113	AB	1 to 3	02 Oct 2019	Wire Crimp Splice
C55194	AD	1 to 4	02 Oct 2019	Electrode and Coil Lead Cable (Shielded)
C55240	AD	1 to 3	02 Oct 2019	Silicone Wire Insulating Sleeve
C55459	AA	1 of 1	02 Oct 2019	M6 Crush Washer
C55463	AC	1 to 3	02 Oct 2019	Flange Hex Nut
FC0045	AA	1 to 2	02 Oct 2019	Electrode and Coil Hookup Wire (Non-Shielded)
FC0058	AA	1 to 2	02 Oct 2019	Electrode and Coil Cable (Foil Shield)
00444-0282	BE	1 to 3	02 Oct 2019	Thread Adapters
08712-0010	AC	1 of 1	02 Oct 2019	Glass for LOI/Display

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Equipment: 8782 Slurry Transmitter and MS Slurry Sensor

Applicant: Emerson – Rosemount, Micro Motion, Inc.

Drawing	Rev.	Sheets	Date (Sira stamp)	Title
08712-0054	AR	1 to 16	02 Oct 2019	Housing Base
08712-0091	AA	1 of 1	02 Oct 2019	Gasket for LOI/Display
08712-0301	AA	1 of 1	02 Oct 2019	Cover Screw
08712-0534	AD	1 of 1	02 Oct 2019	Teflon Insulated Wire
08712-0580	AG	1 to 4	02 Oct 2019	Housing Upper Cover with LOI
08712-0581	AG	1 to 3	02 Oct 2019	Housing Upper Cover without LOI
08712-0582	AD	1 to 2	02 Oct 2019	Housing – LOI Keypad Cover
08712-0583	AK	1 to 3	02 Oct 2019	Housing Lower Cover
08712-0604	AH	1 to 2	02 Oct 2019	Terminal Block
08712-0607	AF	1 to 2	02 Oct 2019	Terminal Block - Safety Cover
08712-0608	AC	1 to 2	02 Oct 2019	Upper and Lower Cover Gasket Seal
08712-0612	AA	1 of 1	02 Oct 2019	Terminal Block Divider Assembly
08712-0870	AB	1 of 1	02 Oct 2019	LOI Schematic
08712-0871	AD	1 to 4	02 Oct 2019	LOI PCB Fab
08712-0872	AF	1 of 1	02 Oct 2019	LOI PCB Assembly
08732-0161	AV	1 to 4	02 Oct 2019	Electrode and Power Cable Assembly
08732-0312	AF	1 to 2	02 Oct 2019	08732 LOI Cable
08732-0866	AO	1 to 10	02 Oct 2019	8732 EM SIRF (HART) Board Schematic
08732-0867	AH	1 to 15	02 Oct 2019	8732 EM SIRF (HART) Board PCB Fab
08732-0868	AK	1 to 2	02 Oct 2019	8732 EM SIRF (HART) Board Assembly
08732-0869	AD	1 to 10	02 Oct 2019	8732 EM SIRF (FF/Fieldbus/Profibus) Board Schematic
08732-0870	AB	1 to 8	02 Oct 2019	8732 EM SIRF (FF/Fieldbus/Profibus) Board PCB Fab
08732-0871	AD	1 to 2	02 Oct 2019	8732 EM SIRF (FF/Fieldbus/Profibus) Board Assembly
08782-0320	AC	1 to 10	02 Oct 2019	Global Slurry Mag Board Schematic
08782-0321	AB	1 to 3	02 Oct 2019	Global Slurry Mag Board Fab Drawing
08782-0322	AC	1 to 6	02 Oct 2019	Global Slurry Mag Board Assembly Drawing
08782-0323	AC	1 of 1	02 Oct 2019	Transition Board Schematic
08782-0324	AC	1 to 3	02 Oct 2019	Transition Board PCB Fab
08782-0325	AC	1 of 1	02 Oct 2019	Transition Board Assembly
08782-0326	AC	1 of 1	02 Oct 2019	DC Power Board Schematic
08782-0327	AC	1 to 3	02 Oct 2019	DC Power Board Fab Drawing
08782-0328	AC	1 of 1	02 Oct 2019	DC Power Board Assembly Drawing
08782-0329	AB	1 of 1	02 Oct 2019	AC Power Board Schematic
08782-0330	AB	1 to 4	02 Oct 2019	AC Power Board Fab Drawing
08782-0331	AB	1 of 1	02 Oct 2019	AC Power Board Assembly Drawing
08782-0349	AB	1 to 1	02 Oct 2019	Thermal Pad
08782-0350	AA	1 to 4	02 Oct 2019	DC-DC Power Module
08782-0352	AA	1 to 4	02 Oct 2019	AC Input Module
08782-0353	AA	1 to 4	02 Oct 2019	AC/DC Converter Module
08782-0501	AD	1 to 2	02 Oct 2019	Heat Sink Bracket

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Applicant: Emerson – Rosemount, Micro Motion, Inc.

Drawing	Rev.	Sheets	Date (Sira stamp)	Title
08782-0503	AA	1 to 2	02 Oct 2019	LOI – Keyboard Membrane
C09866	AJ	1 to 5	02 Oct 2019	Ground Screw
C10375	AN	1 to 4	02 Oct 2019	O-Ring Buna N
C11998	F	1 to 5	02 Oct 2019	Screw
C12304	AA	1 to 2	02 Oct 2019	Washer Ground Terminal
C12728	AE	1 to 3	02 Oct 2019	Thread Sealant
C50283	AB	1 to 6	02 Oct 2019	Pan Head Screw
C50352	AB	1 to 2	02 Oct 2019	3145RTV Sealant for LOI Cable and Glass
C51571	AR	1 to 4	02 Oct 2019	NPT Stopping Plug
C51715	AE	1 to 5	02 Oct 2019	Screw
C52990	B	1 to 2	02 Oct 2019	Hinge Lubricant
C53209	AE	1 to 4	02 Oct 2019	Drive Screw for Nameplates
C53496	AD	1 to 3	02 Oct 2019	Terminal Block - Safety Cover Screw
C54374	AA	1 to 4	02 Oct 2019	Button Head Screw Cap
C54902	AC	1 to 3	02 Oct 2019	Electrical Contact Lubricant
C55532	AA	1 to 3	02 Oct 2019	Strain Relief Bushing
C55730	AB	1 to 3	02 Oct 2019	Screw – Button Head Socket Cap
C55830	AB	1 to 2	02 Oct 2019	Solder Wire
FC0061	AA	1 to 3	02 Oct 2019	Fuses 250V AC

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