



UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

Equipment Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

Certificate Number: **CSAE 24UKEX1048X** Issue: **0**
Product: **Compact Line Vibronic sensor models Liquiphant FTL43 and FTL60**
Manufacturer: **Endress+Hauser SE+Co. KG**
Address: **Hauptstrasse 1, Maulburg, Baden-Württemberg
79689, Germany**

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

CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. The examination and test results are recorded in the confidential reports listed in Section 14.2.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-11:2012

EN 60079-26:2015

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

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

This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of this product shall be in accordance with Regulation 41 and include the following:



II 1 G

II 1/2 G

II 1 D

II 1/2 D

II 1 D/2 G

II 1 G/2 D

Ex ia IIC T4...T1 Ga

Ex ia IIC T4...T1Ga/Gb

Ex ia IIIB T135°C Da

Ex ia IIIB T135°C Da/Db

Ex ia IIIB T135°C Da/Ex ia IIC T4 Gb

Ex ia IIC T4 Ga/ Ex ia IIIB T135°C Db

Name: M Halliwell

Title: Director of Operations



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Certificate No. **CSAE 24UKEX1048X**
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK

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13 DESCRIPTION OF PRODUCT

The Liquiphant Compact Line devices FTL43 and FTL60 are point level switches for liquids and can be used for:

Maximum Working Pressure (MWP) up to 100 bar

Process temperatures up to 150°C.

The main differences for the FTL43 and the FTL60 is the application in where they are intended to be used:

-FTL43 is used for hygienic industrial applications with a maximum working pressure (MWP) up to 64bar and e.g., with a smaller surface roughness as the standard version of the Liquiphant Compact Line sensor.

-FTL60 is used for process industrial applications, with a maximum working pressure (MWP) up to 100bar and e.g., with the standard surface roughness of the Liquiphant Compact Line sensor.

To reduce the influence of the process temperature, it is possible that the sensor is available with a temperature spacer which is outside of the process (vessel). The sensor length (inside the process / vessel) can vary between a compact, short or an extended sensor length up to 1.5m for the standard device and up to 6m for a customer specific length (depend on the switching point of the sensor required by the customer).

Measuring Principle:

For point level detection in liquids a sensor in form of a tuning fork is excited at its resonant frequency. The drive works piezoelectrically. The oscillating frequency changes as the fork enters the medium. The change is analyzed and translated into a switching signal.

The Compact Line Liquiphant devices FTL43 / FTL60 uses Ex component of the Compact Platform Electronics (device enclosure, visual unit, terminal unit, main unit (e.g. MA20: HART) certified under IECEx CSA 24.0035U and Ex sensor specific component (e.g. sensor electronic EA22-01A, Liquiphant piezo sensor SV20-XXX and different process connections) certified under IECEx CSAE 24.0046U .

The FTL43 and FTL60 enclosure [HY20-03A] consists of the following parts:

- Metallic Cover with plastic window unit part, which covers the LED module (VA22-01A)
- Metallic Housing unit part with M12 connector for the input power, which contains:
 - Terminal Electronic (2-wire) [TA20-01A] with its Terminal housing for Ex-ia HART
 - Electronic plastic box which contains the Main electronics 2 wire [MA20-01A] and sensor electronics [EA22-01] under potting
- Metallic Housing adapter for the SV20-XXX sensor
- Metallic Sensor SV20-XXX which could be of three types:
 - Compact sensor
 - Sensor with tube extension
 - Compact sensor with temperature spacer with/without pressure tight feed through

The metallic cover with the housing and with the adapter and with the sensor parts are full welded together and form a fully enclosed enclosure and evaluated entirely as intrinsically safe Ex ia IIC with entity parameters and also evaluated for different zones separations and as Single seal device as per listed standards.

The entity parameters at the M12 connector, in type of protection Ex ia IIC or Ex ic IIC:



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Ui = 30 V li = 100 mA Pi = 700 mW Ci = 15nF Li = 0.69 mH

In type of protection Ex ia IIIB or Ex ic IIIB:

Ui = 30 V li = 100 mA Pi = 650 mW Ci = 15nF Li = 0.69 mH

Ordering Codes

	FTL	43	60	-aa bb c d e f g h ii jj kkk + ll mm nn oo pp qq rr yy
aa=10				Approval:
	UA	X	X	UK Ex ia IIC T4 Ga
	UB	X	X	UK Ex ia IIC T4 Ga/Gb
	UH	X	X	UK Ex ia IIIB Da
	UI	X	X	UK Ex ia IIC T4 Ga, UK Ex ia IIIB Da
	UK	X	X	UK Ex ia IIC T4 Ga/Gb, UK Ex ia IIIB Da/Db
bb=20				Output:
	BA	X	X	2-wire 4-20mA (8/16mA) HART
c=30				Display; Operation:
	B	X	X	LED
	C	X	X	LED with control button
	D	X	X	LED with control button + Bluetooth
	Y	X	X	Modification of the above named option in (e.g. colour of LED). Not relevant for explosion protection.
d=40				Housing; Material:
	F	X	X	Compact; 316L
e=50				Electrical Connection:
	N	X	X	Plug M12, IP66/68/69 NEMA Type 4X/6P
	Y	X	X	Modification of the above mentioned option. Not relevant for explosion protection.
f=60				Application
	A	X	X	Process max 150oC/302oF, max 64bar
	B		X	Process max 150oC/302oF, max 100bar
	Y	X	X	Modification of the above mentioned option. Not relevant for explosion protection.
g=80				Surface Refinement:
	A	X		Standard Ra<1.5µm/59uin
	A		X	Standard Ra<3.2µm/126uin
	B	X		Hygienic Ra<0.76 µm/30 µin
	D	X		Hygienic Ra<0.3µm/12uin mech. polished
	E	X		Hygienic Ra<0.38µm/15uin electropolished
	Y	X	X	Modification of the above mentioned option (e.g. different Ra). Not relevant for explosion protection.
h=85				Type of Probe:
	1	X	X	Compact version



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	FTL	43	60	-aa bb c d e f g h ii jj kkk + ll mm nn oo pp qq rr yy
	2	X	X	Tube extension
	3	X	X	Short tube version
	9	X	X	Modification of the above mentioned option (e.g. shorter than standard version, probe angled). Not relevant for explosion protection.
ii=90				Sensor Length: Material:
	AC		X	Compact version; AlloyC22
	AJ	X	X	Compact version; 316L
	BC		X	Short tube version; AlloyC22
	BJ	X	X	Short tube version; 316L
	BL	X		153 mm L, Ra<1.5µm/59µin; 316L
	BS	X		253 mm L, Ra<1.5µm/59µin; 316L
	BL		X	153 mm L, Ra<3.2µm/126µin; 316L
	BS		X	253 mm L, Ra<3.2µm/126µin; 316L
	CC		X	 mm L, Ra<3.2µm/126µin; AlloyC22
	CJ		X	 mm L, Ra<3.2µm/126µin; 316L
	CJ	X		 mm L, Ra<1.5µm/59µin; 316L
	DC		X	 inch L, Ra<3.2µm/126µin; AlloyC22
	DJ		X	 inch L, Ra<3.2µm/126µin; 316L
	FJ	X		 mm L, Ra<0.3µm/12µin; 316L
	GJ	X		 mm L, Ra<0.38µm/15µin electro polished; 316L
	KJ	X		 inch L; Ra<1.5µm/59µin; 316L
	MJ	X		 inch L; Ra<0.3µm/12µin; 316L
	NJ	X		 inch L; Ra<0.38µm/15µin electro-polished; 316L
	YY	X	X	Modification of one of the above mentioned options (max. L=6m, e.g. material Duplex steel, different Alloy-C-version). Not relevant for explosion protection.
jj=105				Process connection, Sealing Surface:
	##	X	X	Standard industrial process connection: threaded, flange (e.g. Varivent, Clamp/Tri-Clamp, Thread EN10226 (R), Thread ISO228 (G),...)
	99	X	X	Modification of one of the above mentioned options (customer specific connections). Not relevant for explosion protection.
kkk=110				Process Connection:
	###	X	X	Standard industrial process connection: flanges, threaded, flush mount diaphragm seal, 316L, Alloy C22
	9YY	X	X	Modification of one of the above mentioned options (customer specific connections). Not relevant for explosion protection.
ll=540				>>Application Package:
	EH	X	X	Heartbeat Verification + Monitoring
	E9	X	X	Modification of one of the above mentioned options (customer specific variant). Not relevant for explosion protection.
mm=570				>>Service:
	##	X	X	Representing different services like cleaned from oli + fat, cleaned for Oxygen applications, settings to the device different from delivery standard or product documentation on paper, etc..

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	FTL	43	60	-aa bb c d e f g h ii jj kkk + ll mm nn oo pp qq rr yy
				Not relevant for explosion protection.
	I9	X	X	Special version (only modification by firmware) not given in the standard order code. Examples: Switch Point, Switch Time or Switch Density, Foam Detection. Not relevant for explosion protection.
nn=580				>>Test, Certificate, Declaration:
	##	X	X	Material certificates wetted metallic parts, pressure test, leakage test, PMI-test. Not relevant for explosion protection.
	K9	X	X	Modification of one of the above mentioned options: Customer specific variant. Not relevant for explosion protection.
oo=590				>>Additional Approval:
	##	X	X	Additional approvals, no influence to explosion protection; e.g.: SIL, WHG, Ship building, drinking water, CRN. Not relevant for explosion protection.
	L9	X	X	Modification of one of the above mentioned options: Further approvals. Not relevant for explosion protection.
pp=600				>Sensor Design:
	MR	X	X	Temperature spacer
	MS	X	X	Temperature spacer + Pressure tight feed through (Second line of defence)
	M9	X	X	Modification of one of the above mentioned options or special sensor version not given in the standard order code: Shorter, Longer or Angled version of the sensor tube. Not relevant for explosion protection.
qq=620				>>Accessory Enclosed:
	##	X	X	Not part of the approval, because only enclosed parts. Example: Accessory can be a weld-in adapter, plug connector M12 with/without cable. M12 made in plastic or metal with different
rr=850				>Firmware Version
	##	X	X	Representing different firmware versions. Not relevant for explosion protection.
yy=895				>>Marking:
	Zx	X	X	Tagging acc. customer order. Not relevant for explosion protection.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	20 May 2025	R80191569A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 In applications where the process temperature exceeds the temperature class, the hot surface ignition at the process connecting parts of the device shall be monitored.

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- 15.2 To avoid electrostatic charging in explosive atmospheres, avoid rubbing of the non-metallic surfaces using electrostatic generating materials. Do not use the device in applications with moving dust atmosphere causing electrostatic charging.
- 15.3 It is essential for the device to use a power supply that is galvanically isolated from earth.
- 15.4 When using an intrinsically safe barrier, the barrier must be connected to the same earth as the device.
- 15.5 Maximum working pressure (MWP) for model FTL 43 is 64 bar and for FTL 60 is 100 bar.
- 15.6 Pipe/tube extension version is max. 6m and was included in the intrinsically safe evaluation.
- 15.7 Only the surface roughness with the order code g (080) = A for FTL43 and FTL60 can be used for EPL Da/Gb and EPL Ga/Db applications.
- 15.8 The FTL 43/60 models with surface roughness with the order code g (080) = D, E shall not be exposed to environmental, chemical or physical factors that could affect the partition.
- 15.9 The process connection including sealing should maintain a tight joint as IP66 or IP67 according to IEC 60529 under the max process pressure conditions.
- 15.10 The FTL 43/60 device has to be installed within a maximum range of the ambient $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$ and a maximum process temperature of 150°C but there is an ambient and process temperature derating depending on the Zones and the EPL of installation as shown below:

Marking: Ex ia IIC T4 Ga or Ex ia IIC T4 Ga/Gb or Ex ic IIC T4...T1 Gc												
Entity parameters: $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 700\text{ mW}$												
T_p -Process temperature (EPL Ga)												
T_a -Ambient temperature ((EPL Ga or EPL Gb)												
Device + Sensor configuration	Temperature class	P1		P2		P3		P4		P5		Unit
		T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	
	T4	-40	70	80	70	125	50	125	-40	-40	-40	
	T3...T1	-40	70	80	70	140	40	150	-40	-40	-40	
						150	30					
Device + T_{spacer} + Sensor configuration	Temperature class	P1		P2		P3		P4		P5		Unit
		T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	T_p	T_a	
	T4	-40	70	80	70	125	60	125	-40	-40	-40	
	T3...T1	-40	70	80	70	150	60	150	-40	-40	-40	

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Marking: Ex ia IIIB T135°C Da Entity parameters: $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 650\text{ mW}$				
Device + sensor with/without temperature spacer (T_{spacer}).	EPL Da Process temperature (T_p) [°C]	EPL Da Ambient temperature (T_a) [°C]	Marking surface temperature (device + sensor)	Remark
	$-40 \leq T_p \leq 70$	$-40 \leq T_a \leq 70$	T135°C	For EPL Da in Zone 20 a dust immersion or dust layer is permitted acc. IEC 60079-11:2021 cl. 5.4.5

Marking: Ex ia IIIB T135°C Da/Db Entity parameters: $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 650\text{ mW}$				
Device + Sensor configuration	EPL Da Process temperature (T_p) [°C]	EPL Db (Dc) Ambient temperature (T_a) [°C]	Marking surface temperature (device + sensor)	Remark
	$-40 \leq T_p \leq 70$	$-40 \leq T_a \leq 70$	T135°C	Da/Db à Same as for a EPL Da.

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Marking: Ex ia IIIB T135°C Da/Db Entity parameters for the device input: $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 650\text{ mW}$				
Device + T_{spacer} + Sensor configuration	EPL Da Process temperature (T_p) [°C]	EPL Db (Dc) Ambient temperature (T_a) [°C]	Marking surface temperature (device + sensor)	Remark
	$-40 \leq T_p \leq 100$	$-40 \leq T_a \leq 45$	T135°C	<u>Zone 20:</u> For EPL Da in Zone 20 a dust immersion or dust layer is permitted acc. IEC 60079-11:2021 cl. 5.4.5 <u>Zone 21:</u> For the EPL Db in Zone 21 (EPL Db assumed as Da) only a dust cloud , but no dust layer is permitted The enclosure is rated as IP 66/68 acc. IEC 60529.
	$-40 \leq T_p \leq 70$	$-40 \leq T_a \leq 70$		<u>Zone 20:</u> For EPL Da (EPL Db assumed as Da) in Zone 20 (Zone 21) a dust immersion or dust layer is permitted acc. IEC 60079- 11:2021 cl. 5.4.5. Same as for EPL Da

Marking: Ex ia IIIB T135°C Da / Ex ia IIC T4 Gb Entity parameters: $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 700\text{ mW}$				
Device + Sensor configuration with/without T_{spacer}	EPL Da Process temperature (T_p) [°C]	EPL Gb Ambient temperature (T_a) [°C]	Marking max. Surface temperature and T-class	Remark
	$-40 \leq T_p \leq 100$	$-40 \leq T_a \leq 60$	<u>EPL Da (Zone 20):</u> T135°C <u>EPL Gb (Zone 1):</u> T4	For EPL Da in Zone 20 a dust immersion or dust layer is permitted acc to IEC 60079-11:2021 Cl.5.4.5 <u>For EPL Gb the limit</u> <u>is T4 which is</u> <u>fulfilled with the T_p</u> <u>and T_a</u>

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Marking: Ex ia IIC T4 Ga / Ex ia T135°C IIIB Db Entity parameters: $U_i = 30\text{ V}$, $I_i = 100\text{ mA}$, $P_i = 650\text{ mW}$				
Device + Sensor configuration	EPL Ga Process temperature (T_p) [°C]	EPL Db Ambient temperature (T_a) [°C]	Marking max. Surface temperature and T-class	Remark
	$-40 \leq T_p \leq 70$	$-40 \leq T_a \leq 70$	EPL Ga (Zone 0): T4 EPL Db (Zone 21): T135°C	Zone 21: For the EPL Db <u>no dust layer is permitted, only a dust cloud</u> The enclosure is rated as IP 66/68 acc. IEC 60529.
Device + T_{spacer} + Sensor configuration	EPL Ga Process temperature (T_p) [°C]	EPL Db Ambient temperature (T_a) [°C]	Marking max. Surface temperature and T-class	Remark
	$-40 \leq T_p \leq 125$ (125°C is the limit for T4)	$-40 \leq T_a \leq 40$	EPL Ga (Zone 0): T4 EPL Db (Zone 21,22): T135°C	Zone 21: For the EPL Db <u>no dust layer is permitted, only a dust cloud</u> The enclosure is rated as IP 66/68 acc. IEC 60529.
	$-40 \leq T_p \leq 70$	$-40 \leq T_a \leq 70$		

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders
- 17.2 Routine test for the encapsulant for the complete device has to be conducted as per E+H procedure to comply with IEC 60079-11 Ed. 7 Cl 10.4.
- 17.3 The products covered by this certificate incorporate previously certified devices as shown below in the table, it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CSA Group of any modifications of the devices that may impinge upon the explosion safety design of their products.



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Component	Model	Certificate or Report	Standards
Enclosure	HY20-** & HY21-** Series	CSA report number 80184761, dated March 07, 2024	CSA C22.2 No. 94.2:20 Third Edition & ANSI/UL 50E Third Edition, October 15, 2020
Platform Electronics	Compact Platform, consisting of modules TA20-01A, MA20-01A, VA20-01A, VA20-02A and VA22-01A	CSAE 24UKEX1045U issue 0	EN IEC 60079-0:2018 IEC 60079-11, edition 7.0
Liquiphant Sensor Component.	EA22-01A+SV20-xxx	CSAE 24UKEX1053U issue 0	EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-26:2015



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Certificate Annexe

Certificate Number: CSAE 24UKEX1048X
Product: Compact Line Vibronic sensor models Liquiphant FTL43 and FTL60
Manufacturer: Endress+Hauser SE+Co. KG

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Drawing	Sheets	Rev.	Date (Stamp)	Title
961007181	1 of 1	A	30 Apr 25	Overview FTL43/FTL60 Process connection
961007185	1 of 1	A	30 Apr 25	Assembly CL FTL43/FTL60
961007339	1 of 1	A	30 Apr 25	Overview Housing Compact Line
961007338	1 of 1	A	30 Apr 25	Overview potting
961007432	1 to 3	A	30 Apr 25	Order code FTL43 FTL60 ATEX,UKEx (Cat.1+2) and IECEx (Cat. 1+2+3). Based on 961007433.
961007745	1 to 3	A	30 Apr 25	Nameplate ATEX/IECEx/UKEx CL FTL43/FTL60
961006634	1 to 8	A	30 Apr 25	Addendum IECEx/ATEX/UKEx AIC MA20-01A
961006637	1 to 6	A	30 Apr 25	Addendum IECEx/ATEX/UKEx AIC VA22-01A
961006638	1 to 6	A	30 Apr 25	Addendum IECEx/ATEX/UKEx AIC TA20-01A
961007746	1 to 8	A	30 Apr 25	Addendum IECEx/ATEX/UKEx/CSA EA22-01A + SV20-XXX Liquiphant Sensor Component
961007629	1 of 1	A	30 Apr 25	PCB Interface CL electronics (mechanical dimensions between the PCBs)
961008210	1 of 1	A	30 Apr 25	FTL Electronic Box Compact Line HY20-03A
961005642	1 of 1	A	30 Apr 25	Coating Plan A TA20-01 2W-4..20mA (work around)
961005643	1 of 1	A	30 Apr 25	Coating Plan B TA20-01 2W-4..20mA (work around)
961008261	1 of 1	A	30 Apr 25	Printed Circuit Board TA20-01A Encapsulation M12
XA03341F	1 to 12	A	30 Apr 25	Safety Instruction ATEX/IECEx Order code: 010=BA,BU;Ex ia IIC T4 Ga; Ex ic IIC T4 Gc
XA03342F	1 to 12	A	30 Apr 25	Safety Instruction ATEX/IECEx Order code: 010=BB; Ex ia IIC T4 Ga/Gb; Ex ia IIC T4 Gb
XA03343F	1 to 12	A	30 Apr 25	Safety Instruction ATEX/IECEx Order code: 010=BH,BT; Ex ia IIIB T135°C Da; Ex ic IIIC T135°C Dc
XA03344F	1 to 16	A	30 Apr 25	Safety Instruction ATEX/IECEx Order code: 010=BI; Ex ia IIC T4 Ga; Ex ia IIIB Txxx°C Da
XA03345F	1 to 16	A	30 Apr 25	Safety Instruction ATEX/IECEx Order code: 010=BK; Ex ia IIC T4 Gb/Gb; Ex ia IIC T4 Gb; Ex ia IIIC T135°C Da/Db; Ex ia IIIC T135°C Db
961008135	1 of 1	A	30 Apr 25	Connection Diagram FTL 43/60
961008287	1 of 1	A	30 Apr 25	PCB holder display CX2022A Compact Hygiene
C-225252-E	1 of 1	A	30 Apr 25	M12 Circular Connector male Angled A Cod 4p THR Rear Mount



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