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UNITED KINGDOM CONFORMITY ASSESSMENT

UK-TYPE EXAMINATION CERTIFICATE



2 **Equipment or Protective systems intended for use in Potentially Explosive Atmospheres –**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 **UK-Type Examination Certificate No:** FM21UKEX0202X

4 **Equipment or protective system:** Model Type 3725, 3730-4/-5, TROVIS 3730-1,
(Type Reference and Name) TROVIS 3730-3 and TROVIS 3793

5 **Name of Applicant:** Samson AG

6 **Address of Applicant:** Weismuellerstrasse 3
Postfach 101901
Frankfurt
D60314, Germany

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

8 FM Approvals Ltd, Approved Body number 1725, 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 confidential report number:

PR459607 dated 18th October 2022

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-31:2014,
EN 60529:1991+A1:2000+A2:2013

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This UK-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance with the Regulations. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



See Annex for Marking details

Victor Aluko-Oginni
Certification Manager, FM Approvals Ltd.

Issue date: 20th October 2022

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F UKEX 020 (Jan/21)



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13 Description of Equipment or Protective System:

Type 3725

General - The type 3725 electropneumatic positioner is a single-acting positioner for attachment to pneumatic linear and rotary valves. It is a self-calibrating device with automatic adaptation to valve and actuator. The positioner is mounted on pneumatic control valves and is used to assign the valve position (controlled variable x) to the control signal (reference variable w). The positioner compares the electric control signal of a control system to the travel or rotational angle of the control valve and issues a signal pressure (output variable y) for the pneumatic actuator.

The positioner consists of a magneto resistive sensor (2), an analog i/p converter (6) with a downstream booster (7) and the electronics unit with microcontroller (4). The travel or opening angle is measured by the pick-up lever connected to the sensor (2) installed in the positioner and the downstream electronics. When a system deviation occurs, the actuator is either vented or filled with air. If necessary, the signal pressure change can be slowed down by a volume restriction as necessary. The i/p module (6) is supplied with a constant upstream pressure by the pressure regulator (8) to make it independent of the supply air pressure.

Construction - The Type 3725 electropneumatic positioner mainly consists of the electronics part. The parts are assembled in an enclosure made of aluminium die cast or stainless-steel die cast. The enclosure has a cover with a polymeric inspection window. As an alternative to the polymeric material, the window can be made from aluminium. The enclosure has an ingress protection rating of IP66

See Annex for model code, thermal and electrical values.

TROVIS 3730-1

General - The TROVIS 3730-1 Positioner is a single acting positioner for attachment to pneumatic control valves. The positioner mainly consists of a non-contact travel sensor system, an i/p converter and the electronics with the microcontroller. The valve position is transmitted either as an angle of rotation or a travel to the pick-up lever, from there to the travel sensor and forwarded to the microcontroller. The PID algorithm in the microcontroller compares the valve position measured by the travel sensor to the 4 to 20 mA DC control signal issued by the control system after it has been converted by the AD converter. In case of a set point deviation, the i/p converter causes the actuator to be either vented or filled with air. As a result, the closure member of the valve is moved to the position determined by the reference variable. The pneumatic module is supplied with supply air and the flow rate of the module's output can be restricted by software

Construction - The Type TROVIS 3730-1 HART[®] Positioner mainly consists of the electronics part. The parts are assembled in an enclosure made of aluminium die cast or stainless-steel die cast. The enclosure has a cover with a polymeric inspection window. As an alternative to the polymeric material, the window can be made from aluminium. The enclosure has an ingress protection rating of IP66

See Annex for model code, thermal and electrical values.

TROVIS 3730-3

General - The Type TROVIS 3730-3 HART[®] Positioner is a single acting positioner for attachment to pneumatic control valves. The positioner ensures a predetermined assignment of the valve position (controlled variable x) to the input signal (reference variable w). It compares the input signal received from a control system to the travel or rotational angle of the control valve and issues a corresponding output signal pressure (output variable y) for the pneumatic actuator.

Construction - The Type TROVIS 3730-3 HART[®] Positioner mainly consists of the electronics part and one pneumatic module. The parts are assembled in an enclosure made of aluminium die cast or stainless-

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steel die cast. The enclosure has a cover with a polymeric inspection window. As an alternative to the polymeric material the window can be made from aluminium. The enclosure has an ingress protection rating of IP66

See Annex for model code, thermal and electrical values.

3730-4/5

General - The positioners type 3730-41, 3730-51, 3730-45 and 3730-55 are communication-capable, bus-powered field devices which are used to assign a valve position to a control signal. The bus interface connection (bus-coupling) can be performed according to the FISCO-concept for both specifications, Profibus PA and Foundation™ Fieldbus. They are mounted onto levitation and slewing actuators. Non-flammable media are used as pneumatic auxiliary power. The equipment is intended for the application inside the hazardous area.

The positioners type 3730-48 and 3730-58 are communication-capable, bus powered field devices which are used to assign a valve position to a control signal. They are mounted onto levitation and slewing actuators. Non-flammable media are used as pneumatic auxiliary power. The equipment is intended for the application inside the hazardous area.

Construction - The Type TROVIS 3730-4_5 HART® Positioner mainly consists of the electronics part. The parts are assembled in an enclosure made of aluminium die cast or stainless-steel die cast. The enclosure has a cover with a polymeric inspection window. As an alternative to the polymeric material, the window can be made from aluminium. The enclosure has an ingress protection rating of IP66

See Annex for model code, thermal and electrical values.

TROVIS 3793

General - The Type 3793 HART Positioner is a single or double acting positioner for attachment to pneumatic control valves. The positioner ensures a pre-determined assignment of the valve position to the input signal. It compares the input signal received from a control system to the travel or rotational angle of the control valve and issues a corresponding output signal pressure for the pneumatic actuator

Construction - The 3793 HART Transmitter Positioner consists of the electronic part and one or two pneumatic modules. The parts are assembled in an enclosure made of aluminium die cast or stainless-steel die cast. The enclosure has a cover with a polymeric inspection window. As an alternative to the polymeric material the window can be made from aluminium. The enclosure has an ingress protection rating of IP66

See Annex for model code, thermal and electrical values.

14 **Specific Conditions of Use:**

See Annex for Specific Conditions of Use

15 **Essential Health and Safety Requirements:**

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the confidential report identified in item 8.

16 **Test and Assessment Procedure and Conditions:**

This UK-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting

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documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for UKCA Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Regulations in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's UKCA Certification Scheme.

17 **Schedule Drawings**

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Approved Body.

18 **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
20 th October 2022	Original Issue.

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ANNEX

Positioner 3725-118b

Equipment Markings

II 2 G Ex ia IIC T* Gb

Electrical Ratings

Signal circuit / Circuit no. 1		
Connection to terminals +11 / -12		
Type of protection:	Intrinsically safe, Ex ia,	
Rated current:	4 to 20 mA	
Maximum values	V_{max} / U_i	28 V
	I_{max} / I_i	115 mA
	P_i	1 W
	C_i	8.3 nF
	L_i	Negligible

Thermal Ratings

Temperature class	Permissible ambient temperature T_a
T4	-25 °C ≤ T _a ≤ + 80 °C

Model Code

b = Software limit switches: 0 or 1

Specific Conditions of Use

1. The manufacturer documentation and the operating instructions manual must include all required information to minimize the risk of electrostatic charging. A warning label shall be affixed to the equipment.

Positioner TROVIS / 3730-1-118defghijklmno

Equipment Markings

II 2G Ex ia IIC T* Gb

II 2D Ex ia IIIC T85°C Db

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Electrical Ratings

Circuit	Signal circuit	Position transmitter	Inductive limit switches	Software limit switches
Circuit no.	1	2	3 and 4	5 and 6
Terminal no.	+11 / -12	+31 / -32	+41 / -42 and +51 / -52	+45 / -46 and +55 / -56
V_{max} or U_i	28 V	28 V	16 V	16 V
I_{max} or I_i	115 mA	115 mA	25 mA or 52 mA	52 mA
P_i	1 W	1 W	64 mW or 169 mW	169 mW
C_i	16.3 nF	11.1 nF	71.1 nF	12.2 nF
L_i	Negligible	Negligible	100 μH	Negligible
Rated values	I _N = 4 mA...20 mA	U _N = 24 V DC	* U _N = 8.2 V R _i = 1 kΩ	* U _N = 8.2 V R _i = 1 kΩ

Thermal Ratings

The correlation between temperature class and permissible ambient temperature range T_a is shown in Table 2.

Table 2:

Temperature class	Permissible ambient temperature T _a
T4	-40 °C ≤ T _a ≤ + 80 °C
T6	-40 °C ≤ T _a ≤ + 55 °C

For operation with inductive limit switches used with I_{max}/I_i = 52 mA and P_i = 169 mW, the correlation between temperature class and permissible ambient temperature range is shown in Table 3.

Table 3:

Temperature class	Permissible ambient temperature T _a
T4	-40 °C ≤ T _a ≤ + 70 °C
T6	-40 °C ≤ T _a ≤ + 45 °C

The permissible ambient temperature range T_a for dust group IIIC is -40 °C ≤ T_a ≤ + 70 °C

Model Code

- d = function: not safety relevant
- e = Slot B Options: 0, or 1
- f = Slot C Options: 0, 2, 3 or 4
- g = reserved: not safety relevant
- h = Electrical connection: 0 or 1
- i = Housing material: 0 or 1
- j = Cover: 1 or 2
- kl = Housing version: not safety relevant
- m = Additional Approval: not safety relevant
- n = Ship Approval: not safety relevant
- o = Permissible ambient temperature: not safety relevant

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Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

Positioner TROVIS / 3730-1-518defghijklmno

Equipment Markings

II 2D Ex tb IIIC T85°C Db

Electrical Ratings

Circuit	Signal circuit	Position transmitter	Inductive limit switches	Software limit switches
Circuit no.	1	2	3 and 4	5 and 6
Terminal no.	+11 / -12	+31 / -32	+41 / -42 and +51 / -52	+45 / -46 and +55 / -56
Rated values	$I_N = 4 \text{ mA} \dots 20 \text{ mA}$	$U_N = 24 \text{ V DC}$	* $U_N = 8.2 \text{ V}$ $R_i = 1 \text{ k}\Omega$	* $U_N = 8.2 \text{ V}$ $R_i = 1 \text{ k}\Omega$

Thermal Ratings

The permissible ambient temperature range T_a for dust group IIIC is $-40 \text{ }^\circ\text{C} \leq T_a \leq +70 \text{ }^\circ\text{C}$

Model Code

d = function: not safety relevant
e = Slot B Options: 0, or 1
f = Slot C Options: 0, 2, 3 or 4
g = reserved: not safety relevant
h = Electrical connection: 0 or 1
i = Housing material: 0 or 1
j = Cover: 1 or 2
kl = Housing version: not safety relevant
m = Additional Approval: not safety relevant
n = Ship Approval: not safety relevant
o = Permissible ambient temperature: not safety relevant

Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

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Positioner TROVIS / 3730-3-118defghijklmnopqrst

Equipment Markings

II 2G Ex ia IIC T* Gb

II 2D Ex ia IIIC T85°C Db

Electrical Ratings

Circuit	Signal circuit	Position transmitter	Inductive limit switches	Software limit switches
Circuit no.	1	2	3 and 4	5 and 6
Terminal no.	+11 / -12	+31 / -32	+41 / -42 and +51 / -52	+45 / -46 and +55 / -56
V_{max} or U_i	28 V	28 V	16 V	16 V
I_{max} or I_i	115 mA	115 mA	25 mA or 52 mA	52 mA
P_i	1 W	1 W	64 mW or 169 mW	169 mW
C_i	16.3 nF	11.1 nF	71.1 nF	12.2 nF
L_i	negligible	negligible	100 µH	negligible
Rated values	I _N = 4 mA...20 mA	U _N = 24 V DC	* U _N = 8.2 V R _i = 1 kΩ	* U _N = 8.2 V R _i = 1 kΩ
Circuit	External position sensor	Forced venting	Binary output (NAMUR)	Binary input (24 V DC)
Circuit no.	7	8	9	10
Terminal no.	V_REF / PISTE / GND	+81 / -82	+83 / -84	+87 / -88
V_{max} or U_i	4.8 V	28 V	16 V	28 V
I_{max} or I_i	64 mA	115 mA	52 mA	115 mA
P_i	74 mW	1 W	169 mW	1 W
C_i		11.1 nF	12.2 nF	11.1 nF
L_i		Negligible	Negligible	Negligible
Rated values		U _N = 24 V DC	* U _N = 8.2 V R _i = 1 kΩ	U _N = 24 V DC

Thermal Ratings

The correlation between temperature class and permissible ambient temperature range T_a is shown in Table 2.

Table 2:

Temperature class	Permissible ambient temperature T _a
T4	-40 °C ≤ T _a ≤ + 80 °C
T6	-40 °C ≤ T _a ≤ + 55 °C

The permissible ambient temperature range T_a for dust group IIIC is -40 °C ≤ T_a ≤ + 70 °C

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For operation with inductive limit switches used with $I_{max}/I_i = 52$ mA and $P_i = 169$ mW, the correlation between temperature class and permissible ambient temperature range is shown in Table 3.

Table 3:

Temperature class	Permissible ambient temperature T_a
T4	$-40\text{ °C} \leq T_a \leq +70\text{ °C}$
T6	$-40\text{ °C} \leq T_a \leq +45\text{ °C}$

The permissible ambient temperature range T_a for dust group IIIC T 85 °C is $-40\text{ °C} \leq T_a \leq +70\text{ °C}$

Operation with External position sensor I

Table 4:

Temperature class	Permissible ambient temperature T_a
T4	$-30\text{ °C} \leq T_a \leq +80\text{ °C}$
T6	$-30\text{ °C} \leq T_a \leq +55\text{ °C}$

The permissible ambient temperature range T_a for dust group IIIC is $-30\text{ °C} \leq T_a \leq +55\text{ °C}$

Model Code

d = function: not safety relevant
e = Slot A Options: 0, 1 or 2
f = Slot B Options: 0, 1, 2 or 3
g = Slot C Options: 0, 2, 3, 4 or 5
h = Slot D Options: 0, 1, 2, 3, 4, 5 or 6
i = reserved: not safety relevant
j = reserved: not safety relevant
k = Emergency shutdown: not safety relevant
l = Electrical Connection: 0, 1 or 2
m = reserved: not safety relevant
n = Housing material: 0 or 1
o = Cover: 1 or 2
pq = Housing version: not safety relevant
r = Additional Approval: not safety relevant
s = Ship Approval: not safety relevant
t = Permissible ambient temperature: not safety relevant

Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

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Positioner TROVIS / 3730-3-518defghijklmnopqrst

Equipment Markings

II 2D Ex tb IIIC T85°C Db

Electrical Ratings

Circuit	Signal circuit	Position transmitter	Inductive limit switches	Software limit switches
Circuit no.	1	2	3 and 4	5 and 6
Terminal no.	+11 / -12	+31 / -32	+41 / -42 and +51 / -52	+45 / -46 and +55 / -56
Rated values	$I_N = 4 \text{ mA} \dots 20 \text{ mA}$	$U_N = 24 \text{ V DC}$	* $U_N = 8.2 \text{ V}$ $R_i = 1 \text{ k}\Omega$	* $U_N = 8.2 \text{ V}$ $R_i = 1 \text{ k}\Omega$
Circuit	External position sensor	Forced venting	Binary output (NAMUR)	Binary input (24 V DC)
Circuit no.	7	8	9	10
Terminal no.	V_REF / PISTE / GND	+81 / -82	+83 / -84	+87 / -88
Rated values		$U_N = 24 \text{ V DC}$	* $U_N = 8.2 \text{ V}, R_i = 1 \text{ k}\Omega$	$U_N = 24 \text{ V DC}$

Thermal Ratings

The permissible ambient temperature range T_a for dust group IIIC is $-40 \text{ }^\circ\text{C} \leq T_a \leq +70 \text{ }^\circ\text{C}$

Operation with External position sensor I

The permissible ambient temperature range T_a for dust group IIIC is $-30 \text{ }^\circ\text{C} \leq T_a \leq +55 \text{ }^\circ\text{C}$

Model Code

d = function: not safety relevant

e = Slot A Options: 0, 1 or 2

f = Slot B Options: 0, 1, 2 or 3

g = Slot C Options: 0, 2, 3, 4 or 5

h = Slot D Options: 0, 1, 2, 3, 4, 5 or 6

i = reserved: not safety relevant

j = reserved: not safety relevant

k = Emergency shutdown: not safety relevant

l = Electrical Connection: 0, 1 or 2

m = reserved: not safety relevant

n = Housing material: 0 or 1

o = Cover: 1 or 2

pq = Housing version: not safety relevant

r = Additional Approval: not safety relevant

s = Ship Approval: not safety relevant

t = Permissible ambient temperature: not safety relevant

Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

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Positioner 3730-41/51cdefghijk

Equipment markings

II 2G Ex ia IIC T* Gb

II 2D Ex ia IIIC T80°C Db

Electrical Ratings

Circuit	Signal Circuit Foundation™ Fieldbus	Signal Circuit FISCO (PROFIBUS PA)	Inductive limit switches	Forced venting
Circuit no.	1	2	3	4
Terminal no.	+11 / -12	+11 / -12	+41 / -42	+81 / -82
V_{max} or U_i	24 V	17.5 V	16 V	28 V
I_{max} or I_i	360mA	380 mA	25 mA or 52 mA	115 mA
P_i	1.04 W	5.32 W	64 mW or 169 mW	1 W
C_i	5 nF	5 nF	60nF	5.3 nF
L_i	10 μH	10 μH	100 μH	Negligible
Rated values			* U _N = 8.2 V, R _i = 1 kΩ	

Circuit	Binary input (24 V DC)		
Circuit no.	5		
Terminal no.	+87 / -88		
V_{max} or U_i	30 V		
I_{max} or I_i	100 mA		
P_i	1 W		
C_i	Negligible		
L_i	Negligible		
Rated values	U _N = 24 V DC		

* For connection to NAMUR switching amplifier acc. to IEC 60947-5-6

Circuit	External position sensor	Binary input	
Circuit no.	6	7	
Terminal no.	Pins p9, p10, p11	+85 / -86	
U₀	8.61 V	5.88 V	
I₀	55 mA	1 mA	
P₀	250 mW	5,32 W	
C_i		5 nF	
L_i		10 μH	
Rated values			

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Thermal Ratings

The correlation between temperature class and permissible ambient temperature range T_a is shown in Table 2.

Table 2:

Temperature class	Permissible ambient temperature T_a
T4	$-40\text{ °C} \leq T_a \leq +80\text{ °C}$
T6	$-40\text{ °C} \leq T_a \leq +55\text{ °C}$

For operation with inductive limit switches used with $I_{max}/I_i = 52\text{ mA}$, $P_i = 169\text{ mW}$ and $I_{max}/I_i = 25\text{ mA}$, $P_i = 64\text{ mW}$, the correlation between temperature class and permissible ambient temperature range is shown in Table 3.

Table 3:

Temperature class	Permissible ambient temperature T_a	I_i / P_i
T4	$-40\text{ °C} \leq T_a \leq +75\text{ °C}$	52 mA / 169 mW
T6	$-40\text{ °C} \leq T_a \leq +45\text{ °C}$	
T4	$-40\text{ °C} \leq T_a \leq +80\text{ °C}$	25 mA / 64 mW
T6	$-40\text{ °C} \leq T_a \leq +55\text{ °C}$	

The permissible ambient temperature range T_a for dust group IIIC is $-40\text{ °C} \leq T_a \leq +80\text{ °C}$

Model Code

- c = Inductive limit contact: 0 or 1
- d = solenoid valve: 0 or 4
- e = not safety relevant
- f = Positions sensor: 0 or 1
- g = Leakage sensor: 0 or 2
- h = Binary input: 0 or 1
- i = Diagnostics: 4
- j = Housing material: 0 or 1
- k = Connection: 1+2 or 5+6

Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

Positioner 3730-45/55cdefghijk

Equipment markings

II 2D Ex tb IIIC T80°C Db

Electrical Ratings

Circuit	Signal Circuit Foundation™ Fieldbus	Signal Circuit FISCO (PROFIBUS PA)	Inductive limit switches	Forced venting
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Circuit no.	1	2	3	4
Terminal no.	+11 / -12	+11 / -12	+41 / -42	+81 / -82
Rated values			* U _N = 8.2 V R _i = 1 kΩ	
Circuit	Binary input (24 V DC)			
Circuit no.	5			
Terminal no.	+87 / -88			
Rated values	U _N = 24 V DC			

Thermal Ratings

The permissible ambient temperature range T_a for dust group IIIC is -40 °C ≤ T_a ≤ + 80 °C

Model Code

- c = Inductive limit contact: 0 or 1
- d = solenoid valve: 0 or 4
- e = not safety relevant
- f = Positions sensor: 0 or 1
- g = Leakage sensor: 0 or 2
- h = Binary input: 0 or 1
- i = Diagnostics: 4
- j = Housing material: 0 or 1
- k = Connection: 1+2 or 5+6

Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

Positioner TROVIS / TROVIS Safe 3793-118efghijklmnopq

Equipment Markings

II 2G Ex ia IIC T* Gb

II 2D Ex ia IIIC T85°C Db

Electrical Ratings

Circuit	Signal circuit	Position transmitter	Inductive limit switches	Software limit switches
Circuit no.	1	2	3 and 4	5 and 6
Terminal no.	+11 / -12	+31 / -32	+41 / -42 and +51 / -52	+45 / -46 and +55 / -56
V_{max} or U_i	28 V	28 V	16 V	16 V
I_{max} or I_i	115 mA	115 mA	25 mA or 52 mA	52 mA
P_i	1 W	1 W	64 mW or 169 mW	169 mW
C_i	16.3 nF	11.1 nF	71.1 nF	12.2 nF
L_i	negligible	negligible	100 μH	negligible
Rated values	I _N = 4 mA...20 mA	U _N = 24 V DC	* U _N = 8.2 V, R _i = 1 kΩ	* U _N = 8.2 V, R _i = 1 kΩ

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Circuit	Mechanical limit switches	Forced venting	Binary output (NAMUR)	Binary input (24 V DC)
Circuit no.	7 and 8	9	10	11
Terminal no.	47 / 48 / 49 and 57 / 58 / 59	+81 / -82	+83 / -84	+87 / -88
V_{max} or U_i	28 V	28 V	16 V	28 V
I_{max} or I_i	115 mA	115 mA	52 mA	115 mA
P_i	500 mW	1 W	169 mW	1 W
C_i	22.2 nF	11.1 nF	12.2 nF	11.1 nF
L_i	150 μH	Negligible	Negligible	Negligible
Rated values	U _N = 28 V DC	U _N = 24 V DC	* U _N = 8.2 V, R _i = 1 kΩ	U _N = 24 V DC

Circuit	Analog input	Servo drive (AMR) and external position sensor I	External position sensor II	Binary output (contact) (24 V DC)
Circuit no.	12	13	14	15
Terminal no.	+17 / -18	21 / 22 / 23 / 24	+15 / -16	+85 / -86
V_{max} or U_i	28 V	4.8 V	28 V	28 V
I_{max} or I_i	115 mA	65 mA	115 mA	115 mA
P_i	1 W	74 mW	1 W	1 W
C_i	11.1 nF	100 nF	11.1 nF	11.1 nF
L_i	150 μH	8mH	negligible	negligible
Rated values	U _N = 3.5 V DC		U _N = 24 V DC	U _N = 24 V DC

Thermal Ratings

The correlation between the temperature class and permissible ambient temperature range T_a is shown in Table 2.

Table 2:

Temperature class	Permissible ambient temperature T _a
T4	-40 °C ≤ T _a ≤ + 80 °C
T6	-40 °C ≤ T _a ≤ + 55 °C

The permissible ambient temperature range T_a for dust group IIIC is -40 °C ≤ T_a ≤ + 70 °C

For operation with inductive limit switches used with I_{max}/I_i = 52 mA and P_i = 169 mW, the correlation between the temperature class and permissible ambient temperature range is shown in Table 3.

Table 3:

Temperature class	Permissible ambient temperature T _a
T4	-40 °C ≤ T _a ≤ + 70 °C
T6	-40 °C ≤ T _a ≤ + 45 °C

The permissible ambient temperature range T_a for dust group IIIC is -40 °C ≤ T_a ≤ + 70 °C

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to UK-Type Examination Certificate No. FM21UKEX0202X

Operation with External position sensor I

Table 3:

Temperature class	Permissible ambient temperature T_a
T4	$-30\text{ °C} \leq T_a \leq +80\text{ °C}$
T6	$-30\text{ °C} \leq T_a \leq +55\text{ °C}$

The permissible ambient temperature range T_a for dust group IIIC is $-30\text{ °C} \leq T_a \leq +55\text{ °C}$

Model Code

e = not safety relevant

fg = not safety relevant

hi = Option module 1: 00, 10, 40, 45, 65, 80 or 90

jk = Option module 2: 00, 10, 21, 40, 50, 51, 80, 15, 16, 30, 60, 65 or 90

l = Pressure sensor: 0, 1 or 2

m = Electrical connections: 0 or 1

n = Housing material: 0, 1 or 2

o = Special application: not safety relevant

p = Additional approvals: not safety relevant

q = Ambient temperature: not safety relevant

Specific Conditions of Use

1. For the applications in dust group IIIC, the cable glands and blanking plugs supplied must be replaced with certified ones. The cable glands and blanked plugs must be suitable for the corresponding ambient temperatures and have a degree of protection of at least IP 54.

Positioner TROVIS / TROVIS Safe 3793-518efghijklmnopq

Equipment Markings

II 2D Ex tb IIIC T85°C Db

Electrical Ratings

Circuit	Signal circuit	Position transmitter	Inductive limit switches	Software limit switches
Circuit no.	1	2	3 and 4	5 and 6
Terminal no.	+11 / -12	+31 / -32	+41 / -42 and +51 / -52	+45 / -46 and +55 / -56
Rated values	$I_N = 4\text{ mA} \dots 20\text{ mA}$	$U_N = 24\text{ V DC}$	* $U_N = 8.2\text{ V}$ $R_i = 1\text{ k}\Omega$	* $U_N = 8.2\text{ V}$ $R_i = 1\text{ k}\Omega$
Rated values	$U_N = 28\text{ V DC}$	$U_N = 24\text{ V DC}$	* $U_N = 8.2\text{ V}$ $R_i = 1\text{ k}\Omega$	$U_N = 24\text{ V DC}$

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to UK-Type Examination Certificate No. FM21UKEX0202X

Circuit	Mechanical limit switches	Forced venting	Binary output (NAMUR)	Binary input (24 V DC)
Circuit no.	7 and 8	9	10	11
Terminal no.	47 / 48 / 49 and 57 / 58 / 59	+81 / -82	+83 / -84	+87 / -88
Rated values	$U_N = 28 \text{ V DC}$	$U_N = 24 \text{ V DC}$	* $U_N = 8.2 \text{ V}$ $R_i = 1 \text{ k}\Omega$	$U_N = 24 \text{ V DC}$

Circuit	Analog input	Servo drive (AMR) and external position sensor I	External position sensor II	Binary output (contact) (24 V DC)
Circuit no.	12	13	14	15
Terminal no.	+17 / -18	21 / 22 / 23 / 24	+15 / -16	+85 / -86
Rated values	$U_N = 3.5 \text{ V DC}$		$U_N = 24 \text{ V DC}$	$U_N = 24 \text{ V DC}$

Thermal Ratings

The permissible ambient temperature range T_a for dust group IIIC is $-40 \text{ }^\circ\text{C} \leq T_a \leq +70 \text{ }^\circ\text{C}$

Operation with External position sensor I

The permissible ambient temperature range T_a for dust group IIIC is $-30 \text{ }^\circ\text{C} \leq T_a \leq +55 \text{ }^\circ\text{C}$

Model Code

e = not safety relevant

fg = not safety relevant

hi = Option module 1: 00, 10, 40, 45, 65, 80 or 90

jk = Option module 2: 00, 10, 21, 40, 50, 51, 80, 15, 16, 30, 60, 65 or 90

l = Pressure sensor: 0, 1 or 2

m = Electrical connections: 0 or 1

n = Housing material: 0, 1 or 2

o = Special application: not safety relevant

p = Additional approvals: not safety relevant

q = Ambient temperature: not safety relevant

Specific Conditions of Use

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Samson AG (1000003414)

Class No 3610

Original Project I.D. 459607

Certificate I.D. FM21UKEX0202X

<u>Drawing No.</u>	<u>Revision</u> <u>Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic</u> <u>Drawing</u>
1000101297	1	Option Modul (A)	PR459607	Yes (pdf)
1000101319	0	Option Modul (G)	PR459607	Yes (pdf)
1000101618	0	Option Modul (G) Label	PR459607	Yes (pdf)
1000102992	0	EL.-MODUL HART E3793 RELEASE 2	PR459607	Yes (pdf)
1000103011	0	Modemplatine HART mit Verguss	PR459607	Yes (pdf)
1000103040	0	PNEUMATIC MODULE RELEASE 2	PR459607	Yes (pdf)
1000103172	0	Label (Pneumatic module output)	PR459607	Yes (pdf)
1000111314	1	TROVIS 3730-1-118 Label UKEX Ex ia	PR459607	Yes (pdf)
1000111315	1	TROVIS 3730-1-518 Label UKEX Ex tb	PR459607	Yes (pdf)
1000111317	1	TROVIS 3730-1-858 Label UKEX Ex ec	PR459607	Yes (pdf)
1000111330	1	UKEX Label TROVIS 3730-3-118 Ex ia	PR459607	Yes (pdf)
1000111331	1	UKEX Label TROVIS 3730-3-518 Ex tb	PR459607	Yes (pdf)
1000111333	1	UKEX Label TROVIS 3730-3-858 Ex ec	PR459607	Yes (pdf)
1000111339	1	3730-41 Label UKEX Ex ia	PR459607	Yes (pdf)
1000111340	1	3730-41 Label UKEX Ex tb	PR459607	Yes (pdf)
1000111341	1	3730-45 Label UKEX Ex ec/tc	PR459607	Yes (pdf)
1000111357	1	3730-51 Label UKEX Ex ia	PR459607	Yes (pdf)
1000111358	1	3730-51 Label UKEX Ex tb	PR459607	Yes (pdf)
1000111359	1	3730-55 Label UKEX Ex ec/tc	PR459607	Yes (pdf)
1000111373	1	Label TROVIS 3793-1180 Ex ia UKEX	PR459607	Yes (pdf)
1000111374	1	Label TROVIS 3793-5180 Ex tb UKEX	PR459607	Yes (pdf)
1000111376	1	Label TROVIS 3793-8580 Ex ec UKEX	PR459607	Yes (pdf)
1000111377	1	Label TROVIS SAFE 3793-1185 Ex ia UKEX	PR459607	Yes (pdf)
1000111378	1	Label TROVIS SAFE 3793-5185 Ex tb UKEX	PR459607	Yes (pdf)
1000111380	1	Label TROVIS SAFE 3793-8585 Ex ec UKEX	PR459607	Yes (pdf)
1045-0079 -SWD	0.e	e/p-Stellungsregler Typ 3793 TROVIS und TROVIS SAFE, BVS ATEX	PR459607	Yes (pdf)
1045-0200-SWD	3	Assembly drawing Typ 3730-3-110... HART	PR459607	Yes (pdf)
1045-0202-SWD	4	Assembly drawing Typ 3730-3-110... HART external sensor	PR459607	Yes (pdf)
1045-0205-SWD	0.a	housing	PR459607	Yes (pdf)
1050-0138	4	connector	PR459607	Yes (pdf)
1050-0296	1	connector	PR459607	Yes (pdf)
1050-0404	1.c	watertight vent valve	PR459607	Yes (unknown)
1050-0405	1.c	watertight vent valve	PR459607	Yes (unknown)
1050-0454	1.b	filter disk	PR459607	Yes (pdf)
1050-0523-SWD	1.b	Plug connector and socket	PR459607	Yes (pdf)
1050-0540	2	1/2 USA gland	PR459607	Yes (pdf)
1050-0606	2	Wickelangabe und Prüfvorschrift	PR459607	Yes (pdf)
1050-0607-SWD	4.d	i/p-converter complete	PR459607	Yes (pdf)
1050-0607	4.d	I/P-connector comp.	PR459607	Yes (pdf)
1050-0610	2	I/P converter PCB	PR459607	Yes (pdf)
1050-0612	4	wickelblatt	PR459607	Yes (pdf)
1050-0614.pdf	T	Attachmentschematic Positioner	PR459607	Yes (pdf)

1050-0619	3.b	inductive limit switch Typ SJ2 SN	PR459607	Yes (pdf)
1050-0623 T	-	connector	PR459607	Yes (pdf)
1050-0623	T	Connector	PR459607	Yes (pdf)
1050-0649-SWD	1.b	flange coupling M12x1, 4-pole + PE with stranded wire	PR459607	Yes (pdf)
1050-0649	1.b	Flange coupling M12x1, 4-pole without PE with stranded wire	PR459607	Yes (pdf)
1050-0650-SWD	7.a	Positionssensor	PR459607	Yes (pdf)
1050-0650	7.a	positionsensor	PR459607	Yes (pdf)
1050-0653	4	Label (Ex Protected)	PR459607	Yes (pdf)
1050-0707	4	Leitplastik Conductive plastic	PR459607	Yes (pdf)
1050-0727	2.b	e/p binary converter complete	PR459607	Yes (pdf)
1050-0728	T	I/P converter PCB	PR459607	Yes (pdf)
1050-0738	2	Multifunction circuit	PR459607	Yes (pdf)
1050-0739	2	Multifunction circuit PCB	PR459607	Yes (pdf)
1050-0740	S	LCD circuit	PR459607	Yes (pdf)
1050-0741	S	LCD PCB	PR459607	Yes (pdf)
1050-0742	2	conductiv plastic element	PR459607	Yes (pdf)
1050-0790-SWD	1.a	Filter	PR459607	Yes (pdf)
1050-0858	0.g	Modem circuit PCB with compound	PR459607	Yes (pdf)
1050-0859	3	Modem circuit	PR459607	Yes (pdf)
1050-0860	1	Modem circuit PCB	PR459607	Yes (pdf)
1050-0877	4	Warning label	PR459607	Yes (pdf)
1050-0911	-	winding data SMD transformer	PR459607	Yes (pdf)
1050-1077	1	Circuit diagram	PR459607	Yes (pdf)
1050-1116-SWD	0.b	cover	PR459607	Yes (pdf)
1050-1123-SWD	3.i	Printed circuit board with LCDisplay connected	PR459607	Yes (pdf)
1050-1151-SWD	1.d	M20 x 1.5	PR459607	Yes (pdf)
1050-1275 SWD	0.e	LC-Display	PR459607	Yes (pdf)
1050-1275-SWD	0.e	LC-Display	PR459607	Yes (pdf)
1050-1350 -SWD	0.h	Gerätedeckel, vst. (Leichtmetall, Sichtscheibe rund)	PR459607	Yes (pdf)
1050-1367 -SWD	0.c	Pneumatikmodul	PR459607	Yes (pdf)
1050-1368 -SWD	0.d	Elektronikmodul	PR459607	Yes (pdf)
1050-1370	0	Multifunktionsplatine Stromlaufplan Blatt 1 -5	PR459607	Yes (pdf)
1050-1371	0	Multifunktionsplatine bestückt kpl. mit Lackieranweisung Blatt 1 - 2	PR459607	Yes (pdf)
1050-1372	1	Modemplatine HART Stromlaufplan Blatt 1 - 2	PR459607	Yes (pdf)
1050-1373	0	Modemplatine HART bestückt kpl. mit Lackieranweisung Blatt 1 - 2	PR459607	Yes (pdf)
1050-1376	0	Pneumatikmodul Stromlaufplan	PR459607	Yes (pdf)
1050-1377	0	Pneumatikmodul LP- bestückt kpl. mit Lackieranweisung Blatt 1 - 2	PR459607	Yes (pdf)
1050-1379	0	Drucksensorik Stromlaufplan	PR459607	Yes (pdf)
1050-1380	0	Drucksensorik LP-bestückt kpl. mit Lackieranweisung	PR459607	Yes (pdf)
1050-1381	0	Optionenmodul Z3799 (T) Stromlaufplan Blatt 1 - 2	PR459607	Yes (pdf)
1050-1382	0	Optionenmodul Z3799 (T) Leiterplatte kpl. Blatt 1 - 2	PR459607	Yes (pdf)
1050-1383 -SWD	0.h	LC-Display, kpl.	PR459607	Yes (pdf)
1050-1384	-	Typenschild (Pneumatikmodul) Output 138 und 238, P3799-0001... Output 138, P3799-0002... Output 238 P3799-0003...	PR459607	Yes (pdf)
1050-1385	1	Label	PR459607	Yes (pdf)
1050-1389 SWD	0.n	Optionenmodul Z3799 [P] Induktive Grenzkontakte NAMUR NC/NO + Binärausgang NAMUR	PR459607	Yes (pdf)
1050-1424 SWD	0.h	Grenzkontaktmodul induktiv NAMUR NC/NO	PR459607	Yes (pdf)
1050-1425	1	Label	PR459607	Yes (pdf)

1050-1434-SWD	0.b	O-Ring	PR459607	Yes (pdf)
1050-1434	0.b	O-Ring	PR459607	Yes (pdf)
1050-1436-SWD	0.a	Lock washer	PR459607	Yes (pdf)
1050-1443-SWD	2.b	Positioner cover with round window	PR459607	Yes (pdf)
1050-1443	2.b	cover light metal	PR459607	Yes (pdf)
1050-1444-SWD	1.c	Positioner cover with round window	PR459607	Yes (pdf)
1050-1444	1.c	cover stainless steel	PR459607	Yes (pdf)
1050-1445 -SWD	0.c	Vergussgehäuse Modemplatine HART	PR459607	Yes (pdf)
1050-1452 -SWD	3a	Sichtscheibe	PR459607	Yes (pdf)
1050-1455 -SWD	1a	Sicherungsring	PR459607	Yes (pdf)
1050-1455-SWD	1.a	Circlip	PR459607	Yes (pdf)
1050-1455-SWD	1.a	Circlip	PR459607	Yes (pdf)
1050-1472 -SWD	0.i	Gerätegehäuse, kpl. (Leichtmetall)	PR459607	Yes (pdf)
1050-1480 -SWD	0.j	Optionenmodul Z3799 [M] Mechanische Grenzkontakte	PR459607	Yes (pdf)
1050-1482 -SWD	1.c	O-Ring 56x2 (PVMQ) O-Ring 56x2 (VMQ)	PR459607	Yes (pdf)
1050-1482-SWD	0.c	O-Ring	PR459607	Yes (pdf)
1050-1482	0.c	O-Ring (VMQ)	PR459607	Yes (pdf)
1050-1484 -SWD	0.m	Schlitzinitiator vst. induktiv	PR459607	Yes (pdf)
1050-1485 -SWD	0.i	Mikroschalter, vst.	PR459607	Yes (pdf)
1050-1491 -SWD	0.c	Modemplatine HART mit Verguss	PR459607	Yes (pdf)
1050-1497	0	Optionenmodul Z3799 (N) Stromlaufplan	PR459607	Yes (pdf)
1050-1498	0	Optionenmodul Z3799 (X) Leiterplatte kpl.	PR459607	Yes (pdf)
1050-1499	0	Optionenmodul Z3799 (V) Stromlaufplan	PR459607	Yes (pdf)
1050-1500	0	Optionenmodul Z3799 (V) Leiterplatte kpl. Blatt 1 - 2	PR459607	Yes (pdf)
1050-1503	0	Optionenmodul Z3799 (M) Stromlaufplan	PR459607	Yes (pdf)
1050-1504	0	Optionenmodul Z3799 (P) Stromlaufplan	PR459607	Yes (pdf)
1050-1505	0	Optionenmodul Z3799 (M) Leiterplatte kpl.	PR459607	Yes (pdf)
1050-1506	0	Optionenmodul Z3799 (P) Leiterplatte kpl.	PR459607	Yes (pdf)
1050-1507 -SWD	0.d	Blindscheibe	PR459607	Yes (pdf)
1050-1511	1	Label	PR459607	Yes (pdf)
1050-1516	-	Schild (Max. torque 0,6Nm)	PR459607	Yes (pdf)
1050-1519 -SWD	0.c	O-Ring 56x2 (NBR)	PR459607	Yes (pdf)
1050-1519-SWD	0.g	O-Ring	PR459607	Yes (pdf)
1050-1519	0.g	o-Ring (MBR)	PR459607	Yes (pdf)
1050-1520 -SWD	0.g	Gerätegehäuse, kpl. (Leichtmetall, Erdgas)	PR459607	Yes (pdf)
1050-1521 -SWD	0.b	Verschlusscheibe (Erdgas)	PR459607	Yes (pdf)
1050-1522 -SWD	0.c	O-Ring 27x1,5 (VMQ)	PR459607	Yes (pdf)
1050-1523 -SWD	0.c	O-Ring 8x1,5 (VMQ)	PR459607	Yes (pdf)
1050-1531	1	Software limit switches Namur/SPS circuit diagram	PR459607	Yes (pdf)
1050-1532	1	Software limit switches Namur/SPS equipped with painting instruction	PR459607	Yes (pdf)
1050-1535	1	binary circuit diagram	PR459607	Yes (pdf)
1050-1536	0	binaryinput equipped with painting instruction	PR459607	Yes (pdf)
1050-1539	0	Position transmitter circuit diagram	PR459607	Yes (pdf)
1050-1540	0	Position transmitter equipped with painting instruction	PR459607	Yes (pdf)
1050-1541	0	Forced venting circuit diagram	PR459607	Yes (pdf)
1050-1542	0	Forced venting equipped with painting instruction	PR459607	Yes (pdf)
1050-1543	0	i/p converter Stromlaufplan	PR459607	Yes (pdf)
1050-1543	1	IP Umformer	PR459607	Yes (pdf)
1050-1543	0	i/p converter Stromlaufplan	PR459607	Yes (pdf)

1050-1544	0	i/p Converter printed circuit board assembled	PR459607	Yes (pdf)
1050-1547	1	Multifunction board circuit diagram	PR459607	Yes (pdf)
1050-1548	1	Printed circuit board assembled Multifunctional board	PR459607	Yes (pdf)
1050-1549	2	Modem board HART circuit diagram	PR459607	Yes (pdf)
1050-1550	1	Modem board equipped with painting instruction	PR459607	Yes (pdf)
1050-1551 -SWD	0.e	Grenzkontaktmodul mechanisch	PR459607	Yes (pdf)
1050-1552 -SWD	0.f	Optionenmodul Z3799 [N] Software Grenzkontakte NAMUR + Binärausgang NAMUR	PR459607	Yes (pdf)
1050-1554 SWD	0.f	Optionenmodul Z3799 [T] Stellungsmelder + Binäreingang 24V DC + Binärausgang NAMUR	PR459607	Yes (pdf)
1050-1555	7	Option Modul (U)	PR459607	Yes (pdf)
1050-1557 -SWD	0.e	Optionenmodul Z3799 [V] Zwangsentlüftung + Binäreingang 24V DC + Binärausgang NAMUR	PR459607	Yes (pdf)
1050-1560	6	Option Modul (E)	PR459607	Yes (pdf)
1050-1561	7	Option Modul (Y)	PR459607	Yes (pdf)
1050-1562 -SWD	0.g	+ Zwangsentlüftung	PR459607	Yes (pdf)
1050-1562	8	Option Modul (F)	PR459607	Yes (pdf)
1050-1566	1	Label	PR459607	Yes (pdf)
1050-1569	1	Option Modul (E) Label	PR459607	Yes (pdf)
1050-1570	1	Option Modul (Y) Label	PR459607	Yes (pdf)
1050-1571	3	Label	PR459607	Yes (pdf)
1050-1572	2	Option Modul (A) Label	PR459607	Yes (pdf)
1050-1573	0	Option Modul (U) Label	PR459607	Yes (pdf)
1050-1575	1	Label	PR459607	Yes (pdf)
1050-1596	1	Label	PR459607	Yes (pdf)
1050-1597	0	Option Modul (F) Label	PR459607	Yes (pdf)
1050-1598	1	Label	PR459607	Yes (pdf)
1050-1599	0	Label	PR459607	Yes (pdf)
1050-1603	1	Label	PR459607	Yes (pdf)
1050-1604	2	Label	PR459607	Yes (pdf)
1050-1607-SWD	0.i	Cable for option module	PR459607	Yes (pdf)
1050-1610-SWD	1.b	Positioner cover closed	PR459607	Yes (pdf)
1050-1610	1.b	cover without window stainless steel	PR459607	Yes (pdf)
1050-1611-SWD	0.a	Positioner housing	PR459607	Yes (pdf)
1050-1617-SWD	1.b	Positioner cover closed	PR459607	Yes (pdf)
1050-1617	1.b	cover without window light metal	PR459607	Yes (pdf)
1050-1619-SWD	0.b	Diaphragm seal	PR459607	Yes (pdf)
1050-1651 -SWD	0.a	Gerätedeckel, vst. (Edelstahl, Sichtscheibe rund)	PR459607	Yes (pdf)
1050-1652 -SWD	0.a	Gerätedeckel, vst. (Edelstahl, geschlossen)	PR459607	Yes (pdf)
1050-1653 -SWD	0.c	Gerätegehäuse, kpl. (Edelstahl)	PR459607	Yes (pdf)
1050-1657 -SWD	0.a	Gerätegehäuse, kpl. (Edelstahl, Erdgas)	PR459607	Yes (pdf)
1050-1658-SWD	0.f	potting housing (Modem)	PR459607	Yes (pdf)
1050-1659-SWD	0.a	housing Optionsmodul (TROVIS 3730)	PR459607	Yes (pdf)
1050-1670	0	Option Modul (F) schematic	PR459607	Yes (pdf)
1050-1671	0	Option Modul (F) full PCB	PR459607	Yes (pdf)
1050-1674	0	Option Modul (Y) schematic	PR459607	Yes (pdf)
1050-1675	0	Option Modul (Y) full PCB	PR459607	Yes (pdf)
1050-1680	0	Option Modul (U) schematic	PR459607	Yes (pdf)
1050-1681	0	Option Modul (U) Full PCB	PR459607	Yes (pdf)
1050-1686	1	Inductive/SW-Limit switch Namur assembled and painted	PR459607	Yes (pdf)
1050-1688	2	Modem PCB	PR459607	Yes (pdf)

1050-1689	3	Modem Circuit diagram	PR459607	Yes (pdf)
1050-1709-SWD	0.d	i/p-Umformer kpl. / i/p-converter assembly	PR459607	Yes (pdf)
1050-1710-SWD	0	Winding data and test specification for coils	PR459607	Yes (pdf)
1050-1710	0	Winding data and test specification for coils	PR459607	Yes (pdf)
1050-1712	-	connection lable	PR459607	Yes (pdf)
1050-1717-SWD	0.e	Optionsmodul TROVIS 3730 (Binaryinput)	PR459607	Yes (pdf)
1050-1718-SWD	0.d	Optionsmodul TROVIS 3730 (positiontrasmmitter)	PR459607	Yes (pdf)
1050-1719-SWD	0.c	Optionsmodul TROVIS 3730 (forced venting)	PR459607	Yes (pdf)
1050-1723	-	label Binary Input	PR459607	Yes (pdf)
1050-1724	-	label Option module Position transmitter 4 to 20 mA	PR459607	Yes (pdf)
1050-1725	-	label Option module Forced venting	PR459607	Yes (pdf)
1050-1730	-	label Option module	PR459607	Yes (pdf)
1050-1731-SWD	0.b	Inductive sensor	PR459607	Yes (pdf)
1050-1735	04.12.17	Schild (Prüfstellen-Original)	PR459607	Yes (pdf)
1050-1737	04.12.17	Schild (Prüfstellen-Original)	PR459607	Yes (pdf)
1050-1739	-	printed hood	PR459607	Yes (pdf)
1050-1740	-	label (printing template hood)	PR459607	Yes (pdf)
1050-1745	5	Label	PR459607	Yes (pdf)
1050-1746	0	Cover, printed	PR459607	Yes (pdf)
1050-1747	0	print template for cover 1050-1746	PR459607	Yes (pdf)
1050-1765	-	label (Sensor carrier inductiv Limit switches)	PR459607	Yes (pdf)
1050-1775-SWD	0.d	Inductive sensor holder	PR459607	Yes (pdf)
1050-1780-SWD	0.d	compound housing Modemplatine	PR459607	Yes (pdf)
1050-1792	0	Stromlaufplan Externer Positionssensor (3712)	PR459607	Yes (pdf)
1050-1793	0	Leiterplatte bestückt Externer Positionssensor (3712)	PR459607	Yes (pdf)
1050-1794	0	Stromlaufplan (3712) Externer Positionssensor frei verdrahtet	PR459607	Yes (pdf)
1050-1795	0	Leiterplatte bestückt Klemmenanschluss Externer Positionssensor (3712)	PR459607	Yes (pdf)
1050-1796-SWD	0.h	Flanschkupplung vst. M12x1 / M20 x 1.5 4-polig, (Anschluss Stecker 2- u. 3 polig)	PR459607	Yes (pdf)
1050-1798-SWD	0.c	LCD (alternativ manufacture)	PR459607	Yes (pdf)
1050-1802-SWD	0.b	LC-Display	PR459607	Yes (pdf)
1050-1812-SWD	0.e	Flange coupling M12x1 / M20 x 1.5 4-pole, wire end sleeves	PR459607	Yes (pdf)
1050-1812	5	Flange coupling M12x1 / M20 x 1.5 4-pole	PR459607	Yes (pdf)
1050-1813-SWD	0.h	Connection cable 4-pole, wire end sleeves on both sides for clamping	PR459607	Yes (pdf)
1050-1814-SWD	0.e	Connection cable 4-pole, M12x1 connector (10m long)	PR459607	Yes (pdf)
1050-1814	0.e	Connection cable 4-pin M12x1 plug (10m long)	PR459607	Yes (pdf)
1050-1828	1	label 3712-001... Ex tested	PR459607	Yes (pdf)
1050-1839-SWD	0.a	slot indicator 2-polig und 3-polig	PR459607	Yes (pdf)
1050-1840-SWD	0.b	sensor carrier inductiv limit switches	PR459607	Yes (pdf)
1050-1849-SWD	0.b	contact assignment for external position sensor for TROVIS 3730-3	PR459607	Yes (pdf)
1050-1891-SWD	0.d	i/p converter	PR459607	Yes (pdf)
1050-1892	0	Winding specifications and test specification for coils	PR459607	Yes (pdf)
1050-1894-SWD	0.f	Modemplatine HART Leiterplatte bestückt vergossen, kpl	PR459607	Yes (pdf)
1050-1920	3	TROVIS 3730-3 terminal connection symbols	PR459607	Yes (pdf)
1050-1920	3	TROVIS 3730-3 terminal connection symbols	PR459607	Yes (pdf)
1050-1928-SWD	0.a	Pressure compensation element DAE 10/4 self-adhesive	PR459607	Yes (pdf)
1050-1929	0	Label for terminal assignment	PR459607	Yes (pdf)
1050-1930	0	Option plate	PR459607	Yes (pdf)

1050-1936-SWD	0.d	Modem PCB encapsulated	PR459607	Yes (pdf)
1050-1942	0	Option Modul (A) schematic	PR459607	Yes (pdf)
1050-1943	0	Option Modul (A) Full PCB	PR459607	Yes (pdf)
1050-1965	0	Option Modul (E) Full PCB	PR459607	Yes (pdf)
1050-1966	0	Option Modul (E) schematic	PR459607	Yes (pdf)
1050-2018	0	Drucksensoren Stromlaufplan	PR459607	Yes (pdf)
1050-2019	0	Drucksensoren LP - bestückt kpl. mit Lackieranweisung	PR459607	Yes (pdf)
1050-2020	0	Option Modul (G) Stromlaufplan	PR459607	Yes (pdf)
1050-2021	0	Option Modul (G) Leiterplatte kpl.	PR459607	Yes (pdf)
1050_0707	4	conductive plastic	PR459607	Yes (pdf)
1050_0742 S	2	conductive plastic	PR459607	Yes (pdf)
1050_1519-SWD	0.g	O-Ring	PR459607	Yes (pdf)
1050-1710	1	Wickelangaben und Prüfvorschrift für Spulen und Transformatoren	PR459607	Yes (pdf)
4000160024	0	Pneumatikblock Schematic	PR459607	Yes (pdf)
4000160025	0	Pneumatikblock Full PCB assembled incl. Coating instructions	PR459607	Yes (pdf)
4000162584	1	Multifunktionsplatine Multifunctional board schematic	PR459607	Yes (pdf)
4000162585	1	Multifunktionsplatine Multifunctional board assembled with coating instructions	PR459607	Yes (pdf)
4000165585	0	Modem board HART schematic	PR459607	Yes (pdf)
4000165586	0	Modem board HART assembled PCB with coating instructions	PR459607	Yes (pdf)
4000168849	00	Approval Alternate Protective - Conformal Coating	PR459607	Yes (pdf)
Instructions and	0	UKEX_Ex-Safety Instructions and ADDENDUM	PR459607	Yes (pdf)