

# TYPE EXAMINATION CERTIFICATE

## Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended)

- Type Examination Certificate Number:** ITS21UKEX0058X Issue 0
- Product:** Positioner Type - type 879\*
- Manufacturer:** Bürkert Werke GmbH & Co. KG
- Address:** Christian-Burkert-Str. 13-17, Ingelfingen, 74653, Germany
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Schedule 1 of UKSI 2016:1107 (as amended).  
  
The examination and test results are recorded in the confidential Reports BVS PP 16.2209 EU (A 20130917) and BVS PP 16.2209 EU Supplement 1 (A 20191138).
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018, EN 60079-11:2012 and EN 60079-31:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This Type Examination Certificate relates only to the design of the specified product and not to specific items subsequently manufactured.
- The marking of the product shall include the following:



II 3G Ex ec ic IIC T4 Gc

II 3D Ex tc IIIC T135°C Dc

**Certification Officer:** \_\_\_\_\_

M Newman

**Date:** \_\_\_\_\_

09 April 2021

## SCHEDULE:

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### 11. Description of Equipment or Protective System

*Positioner Type 879a be de fgghi j k lm no p qr s tuvw*

a	Type	1	side/remote control basic
		2	side/remote control
		3	side/remote control PIO
be	Pneumatic function	00	without valve
		03	double acting QNn=100 l/min
		E01	single acting ON 0,6
de	Proximity switch	00	without
fgghi	Flange pattern	RM01	Remote Version
		FA06	= NAMUR-Flange
j	Supply voltage	E	DC 24 V
		3	via Bus
		T	DC 24 V galvanical/y isolated actuator supply
k	Driving	A	4-20 mA
		F	0 - 10 V, 0 - 5 V, 4 - 20 mA, 0 - 20 mA adjustable
		N	serial (via Bus)
lm	Electr. Connection	KD	cable entry
		MP	Mu/fipol
no	Fluidic connectors	GI	G 1/4
p	Operation / Configuration	0	without
		T	keyboard and display internally
q	Inputs / Outputs	0	without
		A	1 analog output
		B	1 analog output + 2 Binary outputs
		C	2 Binary outputs
		D	1 Binary outputs
		E	1 Binary outputs + 1 analog output
		F	1 binary input+ 1 analog output +2 Binary outputs
		G	1 binary input + 2 Binary outputs

## SCHEDULE:

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R Additional Functions	0	without
	A	optional 4 ... 20 mA (without PIO) or RS485 interface for ext. WMNS (with PIO)
	Q	Potentiometer input for external WMS (Potentiometer)
	R	RS485 interface for external digital WMS

S Communication	0	without
	A	AS-Interface 31 slaves
	C	AS-Interface 62 slaves analog profile
	D	Device Net
	Y	Profibus DP-V1
	G	buS
	I	Service-buS + Ethernet IP
	J	Service-buS + Profinet
	K	Service-buS + Modbus TCP
	L	Service-buS
	Q	Service-buS + 10-Link

tuvw Variable Code PX45

The positioner type 879\*\* is used to control 3'd party valves (linear and rotary actuators). It will be mounted via special assembly kits at the pneumatic actuator of the control valve.

The positioner type 8791 is different to the type 8792. It is a version without a display and therefore without some functions. The type 8793 is a version of the 8792 with an additional process controller. There are two possibilities for all variants to connect the wires, cable glands or circular connectors, also two kind of input signals, norm signal or fieldbus.

The Remote Version is a positioner without an integrated stroke measurement system. This one could be connected to an external measurement system.

### 12. Report Number

Reports BVS PP 16.2209 EU (A 20130917) and BVS PP 16.2209 EU Supplement 1 (A 20191138).

### 13. Conditions of Certification

#### (a). Special Conditions of Use

- The equipment shall not be used in dust atmospheres with strong charge generating processes leading to propagating brush discharges.
- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60994-1.

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- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- For the variant with cable plug this plug is provided by the end user in the end use application. This plug is no part of this test report and shall be in accordance with all applicable clauses of EN IEC 60079-0, EN IEC 60079-7 and EN 60079-31. A minimum degree of protection IP65 according to EN 60529 shall be ensured.
- For devices with round connector (multipole) a special safety clip shall be used preventing the disconnection of the plug without tool.
- The remote version type 8791 can be carried out without the cover of the housing in case it is mounted in a control cabinet fulfilling all relevant aspects of EN IEC 60079-0, EN IEC 60079-7 and EN 60079-31.

(b). Conditions of Manufacture - Routine Tests

- None.

### 14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) affected by this variation have been identified and assessed in Intertek Report: 104617800CHE-001 Dated: 7 April 2021.

### 15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Marking plate UKCA / Typschild bedruckt UKCA	9000532506	01	2021-04-08

All other drawings and documents are listed in the confidential reports detailed in sections 6 & 12.