

1 EU - TYPE EXAMINATION CERTIFICATE

2 Product or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU – Annex III

3 EU - Type Examination Certificate No.: **EMT19ATEX0027X**

4 Product: **Type V Valve Controller (Variants: VO, VA)**

5 Manufacturer: **Imtex Controls Limited**

6 Address: **Unit 4, Tenth Avenue, Deeside Industrial Park, Deeside, Flintshire,
CH5 2UA, United Kingdom**

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

8 Element Materials Technology, Notified Body number 2812, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive. The examination and test results are recorded in the confidential report **TRA-047204-33-00A**.

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

EN 60079-0:2018

EN 60079-11:2012

Except in respect of those requirements listed at section 18 of the schedule.


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

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

12 The marking of this product shall include the following:

 **II I G Ex ia IIC T6...T4 Ga**
II 2 D Ex ia IIIC T85°C ...T135 °C Db
Tamb is variable See Appendix B.

Applicable for Model VO

 **II 2 GD**
Ex ib IIC T6...T4 Gb
Ex ib IIIC T85°C ...T135 °C Db
Tamb is variable See Appendix B.

Applicable for Model VA

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S.P. Winsor

S P Winsor, Certification Manager

Issue date: 2020-02-27

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13 SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

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15 Description of Product

The Type V Controller provides high accuracy position feedback and comprehensive diagnostic and testing functionality for automated process valves.

The equipment is housed within a metallic enclosure which resides upon the top of a process valve. A range of different sensors and or switches may be installed within the enclosure of the equipment. There are 6 cable entry points at the base of the enclosure.

Two models of the Type V Controller are available, the VA and VO variant.

The VA features an internal programmable control board and is suitable for EPL Gb, Zone 1 IIC and Zone 21 IIIC environments. Enclosure material is constructed from stainless steel or die cast aluminium.

The VO has no internal programmable control board, only switches, sensors or transmitters and is suitable for EPL Ga, Zone 0 IIC and Zone 21 IIIC environments. Enclosure material is constructed from stainless steel only.

Cable glands shall be selected to be appropriate with the installation environment.

Model part number breakdown

<p>Type Vx - see NOTE 1</p> <p>1. CONNECTED SOLENOID (into Control Board)</p> <p>I - Exi (only for 'VA' & 'VF' options)</p> <p>O - No Solenoid Connected</p> <p>2. CONTROL BOARD CONFIGURATION</p> <p>I - Exi Set Up (No Pressure Transmitter)</p> <p>VI - Exia</p> <p>VA - Exib</p> <p>VO - Exia</p> <p>Supports single Solenoid Connection only</p> <p>Y - Exi Set Up with Pressure Transducer fitted in Conduit Entry</p> <p>VI - Exia</p> <p>VA & VO - Cannot be offered as I.S. for this configuration</p> <p>Supports single Solenoid Connection only</p> <p>3. NO. OF ADDITIONAL FUNCTION DEVICES</p> <p>0 - No Function Item</p> <p>1 - One Function Item</p> <p>2 - Two Function Item</p> <p>3 - Three Function Item (not Fr 70)</p> <p>4 - Four Function Item (not Fr 70)</p> <p>5 - Five Function Item (not Fr 70)</p> <p>6 - Six Function Item (not Fr 70)</p>		<p>4. FUNCTION (additional items type) NOTE 2</p> <p>01 - Base Model Only No Additional Switches/Sensors</p> <p>14 - DPDT Contact Mechanical Switch up to 10 amp @ 125/250 VAC up to 0.5 amps @ 125VDC</p> <p>16 - SPDT Contact Mechanical Switch up to 10 amp @ 125/250 VAC up to 0.5 amps @ 125VDC</p> <p>17 - SPDT Gold Contact Mechanical Switch up to 1 amp @ 125 VAC up to 0.5 amps @ 30VDC Suitable for I.S. Circuits - See I.S. Parameters on Unit</p> <p>25 - SPDT Reed Switch Max Current: 3 Amps Max Power: 150 Watts Suitable for I.S. Circuits - See I.S. Parameters on Unit</p> <p>40 - SPST/SPDT Reed Switch Max Current: 0.15 Amps @ 30VDC Switch Inductance: 650 µH Suitable for I.S. Circuits - Parameters on Unit</p> <p>42 - V3 Style Proximity Sensor Op Voltages (sensor dependent) 10 to 60VDC Op Current (sensor dependent) 2 to 400mA Some Sensors Suitable for I.S. Circuits - See I.S. Parameters on Unit</p> <p>43 - Non V3 Style Proximity Sensor Op Voltages (sensor dependent) 10 to 60VDC Op Current (sensor dependent) 2 to 400mA Some Sensors Suitable for I.S. Circuits - See I.S. Parameters on Unit</p> <p>70 - POSITION TRANSMITTER - 4-20mA @ 10 - 40 VDC monitor may include up to 6 additional switches/sensors from functions 17, 25, 40, 42 or 43 - Detailed by Feature Information Transmitter Suitable for I.S. Circuits - Parameters on Unit</p>		<p>5. ENCLOSURE</p> <p>S - 316SS Cover & Housing</p> <p>L - 316L SS Cover & Housing</p> <p>9 - High Pressure Die Cast Aluminium Cover & Housing</p> <p>6. CONDUIT</p> <p>Z - (6) M20 x 1.5</p> <p>Y - (3) M25 x 1.5 & (3) M20 x 1.5</p> <p>X - (2) M25 x 1.5 & (4) M20 x 1.5</p> <p>W - (1) M25 x 1.5 & (5) M20 x 1.5</p> <p>V - (6) 1/2"NPT</p> <p>U - (3) 3/4" NPT & (3) 1/2"NPT</p>		<p>6. CONDUIT (continued)</p> <p>T - (2) 3/4" NPT & (4) 1/2"NPT</p> <p>S - (1) 3/4" NPT & (5) 1/2"NPT</p> <p>R - (5) M20 x 1.5 (1) 1/2"NPT</p> <p>Q - (3) M25 x 1.5 & (2) M20 x 1.5 (1) 1/2"NPT</p> <p>P - (2) M25 x 1.5 & (3) M20 x 1.5 / (1) 1/2"NPT</p> <p>N - (1) M25 x 1.5 & (4) M20 x 1.5 / (1) 1/2"NPT</p> <p>M - (5) 1/2"NPT (1) M20 x 1.5</p> <p>L - (3) 3/4" NPT & (2) 1/2"NPT / (1) M20 x 1.5</p> <p>K - (2) 3/4" NPT & (3) 1/2"NPT / (1) M20 x 1.5</p> <p>J - (1) 3/4" NPT & (4) 1/2"NPT / (1) M20 x 1.5</p>		<p>7. OUTPUT DRIVE</p> <p>S - 2 Pin Drive</p> <p>N - NAMUR Drive</p>		<p>8. INDICATOR</p> <p>R - RED CLOSED / GREEN OPEN (ABS material)</p> <p>B - BLUE CLOSED / WHITE OPEN (ABS material)</p> <p>E - RED CLOSED / YELLOW OPEN (ABS material)</p> <p>Y - NAVY CLOSED / YELLOW OPEN (ABS material)</p> <p>C - CONTINUOUS</p> <p>O - NO VISUAL INDICATOR</p>		<p>9. SYSTEM COMMUNICATION (Note 3)</p> <p>0 - No Additional Comms (Local Operation Only)</p> <p>2 - HART</p>		<p>10. CONTROL BOARD POWER</p> <p>E - External 24VDC Power Supply - Exi Restrictions Apply</p> <p>L - Loop Powered on Board AO (VI and VA only)</p> <p>O - No Control Board</p> <p>11. FEATURE INFORMATION</p> <p>- 1XX -Ex* (ia) Feature Designator Additional Items Dual Certified & Suitable for Gas and Dust (Note 2)</p> <p>- 3XX -Ex* (ia) Feature Designator Additional Items ATEX Certified & Suitable for Gas and Dust (Note 2)</p>												
<p>Part Number Compilation:</p> <p style="text-align: center;">VAII217SYSR2L-100</p> <p>Type Designator: V, A, I, I, 2, 1, 7, S, Y, S, R, 2, L, -100</p> <p>3rd Party Solenoid Certification: I</p> <p>Control Board Certification Setup: A</p> <p>No of Function: 2</p> <p>Function: I</p> <p>Enclosure: S</p> <p>Conduit Entry: U</p> <p>Conduit: U</p> <p>Output Drive: S</p> <p>Indicator: R</p> <p>Communication: 2</p> <p>Power: 0</p> <p>Feature: 0</p>																										
<table border="1"> <thead> <tr> <th>REV</th> <th>DRAWN</th> <th>DATE</th> <th>CHK'D</th> <th>ECO</th> </tr> </thead> <tbody> <tr> <td></td> <td>PT</td> <td>7.10.19</td> <td></td> <td>19-2849</td> </tr> <tr> <td>A</td> <td>PT</td> <td>3.11.19</td> <td></td> <td>19-2853</td> </tr> </tbody> </table>				REV	DRAWN	DATE	CHK'D	ECO		PT	7.10.19		19-2849	A	PT	3.11.19		19-2853	<p>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</p>				<p>NOTE 1: The following letters should be applied to define the main control electronics board that is installed - 'I' - V-ID Monitoring Board (Exia option) 'A' - V-AID Monitor & Control Board (Exib option) 'O' - No Control Board Fitted (Exia option) Exi Details for Board - see A190372</p> <p>NOTE 2: The exact detail of switches/sensors/transmitters fitted in the monitor is not fully specified by the basic part number. The 'feature designator' provides a mechanism for cross-referencing to a centralised log establishing the make and model of parts fitted in a given unit. Dual Certified means unit is covered by both ATEX and IECEx certification. Refer to A190354 for additional component characteristics</p> <p>NOTE 3: Communication relates to the way the installed unit operates with the client system and analytics application. For options available on each electronics board & certification variant, consult factory.</p> <p>NOTE 4: VARIANT 'VF' IS NOT CURRENTLY CERTIFIED</p>			
REV	DRAWN	DATE	CHK'D	ECO																						
	PT	7.10.19		19-2849																						
A	PT	3.11.19		19-2853																						
<p style="text-align: right;">Type V - Master Model Description Exi - Versions Only</p>																										

Reference drawing A190352-IS

The temperature class, operating ambient temperature and intrinsic safety entity parameters are fully described in the Appendix B to this certificate.

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16 Test Report No. (as added for this issue of the certificate): TRA-047204-33-00A.

17 Specific Conditions of Use

- (1) Dielectric strength of insulation must be >500 Vac RMS between different cores of internal wiring, between all circuits and the metallic frame, and between separate intrinsically safe circuits
- (2) Only suitable Ex approved IP 54 or greater rated cable glands, thread adapters and blanking plugs are permitted for use with the enclosure when installed in a hazardous environment.
- (3) The equipment shall be cleaned regularly with a damp or antistatic cloth to prevent a build up of dust on the equipment surfaces
- (4) Antistatic hazard with non-metallic parts – the equipment shall only be cleaned with a damp or antistatic cloth



Attention is drawn to the operating and installation instructions which may contain useful information in relation to conditions of use.

18 Essential Health and Safety Requirements (Directive Annex II)

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

19 Drawings and Documents

The list of controlled technical documentation is given in Appendix A to this schedule.

20 Routine Tests

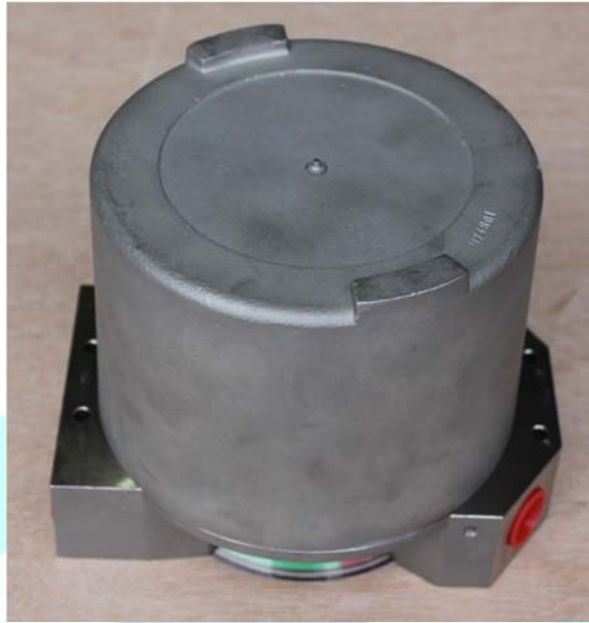
None.

21 Specific Conditions for Manufacture

None.

22 Photographs

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23 Details of Markings

Valvescan Type V
IP66/67/68 Valve Controller
CERTIFICATION: EMT19ATEX0027X
IECEX EMT 19.0011X

Model: V00H425SZSR001SW Serial: [REDACTED]

Ex ia IIC T6 Ga Tamb = -XX°C to +XX°C & Ex ia IIIC T85°C Db IP6X
 Ex ia IIC T4 Ga Tamb = -XX°C to +XXX°C & Ex ia IIIC T135°C Db IP6X

MAIN FUNCTION DETAIL		INTRINSICALLY SAFE INFORMATION	
SPOT REED SWITCH	U 28 V L 500 mA P 5 W	V I L	500 mA P 5 W
	L 10 μH C <10 nF	V I C	<10 nF

CONSULT INSTRUCTIONS PRIOR TO INSTALLATION, OPERATION or MAINTENANCE

Ex II 1 G II 2 D **CE** 2813

ADDITIONAL FUNCTION COMPONENTS		INTRINSICALLY SAFE INFORMATION	
	U V L mA P W	V I L	mA P W
	L μH C nF	V I C	nF

Warning: Potential Electrostatic Charging Hazard
 The unit contains non-conducting parts and must not be installed in locations where external conditions (such as high pressure steam) might cause a build up of electrostatic charge. In addition, only clean unit with a damp cloth.
Warning: For T_{amb} +85°C, cable glands or conductors in conduit entries shall be rated +100°C (min).

Imtexcontrols
 Deeside, Flintshire - UK
 www.imtex-controls.com

VO Variant

Valvescan Type V
IP66/67/68 Valve Controller
CERTIFICATION: EMT19ATEX0027X
IECEX EMT 19.0011X

Model: VA242SZSR2L300 Serial: [REDACTED]

Ex ib IIC T6 Gb Tamb = -XX°C to +XX°C & Ex ib IIIC T85°C Db IP6X
 Ex ib IIC T4 Gb Tamb = -XX°C to +XXX°C & Ex ib IIIC T135°C Db IP6X

CONTROL BOARD - V-AID		INTRINSICALLY SAFE INFORMATION	
ESD INPUT ON TERMINALS 7 (+) / 0 (-) if applicable	U 13.3 V L 2000 mA P 6 W	V I L	2000 mA P 6 W
	L 0 μH C 0 nF	V I C	0 nF

ESD OUTPUT TO INTRINSICALLY SAFE SOLENOID ON TERMINALS 9 (+) / 8 (-); PARAMETERS AS INPUT VALUES

CONSULT INSTRUCTIONS PRIOR TO INSTALLATION, OPERATION or MAINTENANCE

Ex II 2 GD **CE** 2813

CONTROL BOARD POWER - TO TERMINALS 16 (+) / 17 (-)		INTRINSICALLY SAFE INFORMATION	
	U 28 V L 120 mA P 0.84 W	V I L	120 mA P 0.84 W
	L 0 μH C 0 nF	V I C	0 nF

OTHER DO/DI FITTED? NO PARAMETERS DETAIL - SEE INSTRUCTIONS

FUNCTION COMPONENTS FOR INDEPENDENT CONNECTION		INTRINSICALLY SAFE INFORMATION	
NJ2-V3-N Sensor	U 16 V L 34 mA P 64 W C 40 nF L 50 μH	V I L	34 mA P 64 W
	L 0 μH C 0 nF	V I C	0 nF

Warning: Potential Electrostatic Charging Hazard
 The unit contains non-conducting parts and must not be installed in locations where external conditions (such as high pressure steam) might cause a build up of electrostatic charge. In addition, only clean unit with a damp cloth.
Warning: For T_{amb} +85°C, cable glands or conductors in conduit entries shall be rated +100°C (min).

Imtexcontrols
 Deeside, Flintshire - UK
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VA variant

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24 Details of Variations to this Certificate

This certificate is a consolidated certificate and reflects the latest status of the certification, including the following variations:

- None

25 Notes to CE marking

In respect of CE Marking, Element Materials Technology accepts no responsibility for the compliance of the product against all applicable Directives in all applications.

26 Notes to this certificate

Element Materials Technology certification reference: TRA-047204-00 (GU-IMTQ-0001).

Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Notified Body number 2812 is the designation for Element Materials Technology Rotterdam BV.

27 Conditions for the validity of this certificate

This certificate remains valid for so long as:

- (i) The equipment listed in section 4 is manufactured in accordance with the documents listed in Appendix A of this certificate.
- (ii) The standards listed in section 9 of this certificate continue to satisfy the Essential Health and Safety Requirements of Annex II of Directive 2014/34/EU and the generally acknowledged state of the art (e.g. as determined by the publishers of those standards).

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APPENDIX A - TECHNICAL DOCUMENTS

Title:	Drawing No.:	Rev. Level:	Date:
Type V – Master Model Description Exi – Versions Only	A190352-IS	A	2019-11-03
Title plate IECEX / ATEX Unit	A160225	G	2020-01-24
Installation, Operating and Maintenance Type V – IECEX/ATEX I.S. Version (2 sheets)	A190379-V-IOM-003-IS	D	2020-01-24
Type V Controller – General Layout	J100479	D	2019-11-18
VA Assembly w/ 2x NJ2-V3-N (2 sheets)	VAll242SZSR2L3OO	A	2019-11-18
Type VO Controller w/ 4x Reed Switch (2 sheets)	VOOI425SZSR001SW	-	2019-11-18
Control Board Intrinsically Safe Information – Type VA and VO variants (4 sheets)	A190372	D	2019-11-08
Characteristics for Additional Electrical Equipment Integrated Into Type V Enclosure – Intrinsically Safe Reference Document (16 sheets)	A190354	A	2019-10-28

Note: The symbol “ - ” indicates that this information was not available.

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APPENDIX B - Table of Ambient temperature ranges and Table of entity parameters

Assembly	Ambient temperature ranges		
	Minimum ambient (°C)	Maximum ambient T6 (°C)	Maximum ambient T4 (°C)
Model VA - only control board fitted Function 01	-30	60	80
Model VA or VO - with volt-free contact switches Functions 14, 16, 17, 25, 40	-40	60	85
Model VA or VO - with proximity sensors (manufacturer: Hans Turck) Functions 42, 43 (with exception of sensor ...-.....-Y1.-...../S97)	-25	50	70
Functions 42, 43 (with sensor ...-.....-Y1.-...../S97)	-40	50	70
Model VA or VO - with proximity sensors (manufacturer: IFM) Functions 42, 43	-20	50	N/A
Model VA or VO - with proximity sensors (manufacturer: Pepperl & Fuchs) Functions 42, 43	-20	50	75
Model VA or VO - with transmitter (manufacturer: Zettlex) Function 70	-40	50	75
Note: for models fitted with more than one Function Device, the Tamb would revert to worst case e.g. Combination of VA Model with control board and transmitter fitted, Tamb -30 °C to 50 °C for T6.			

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Tables of entity parameters

1.0 - VA variant with only control board fitted

Function Reference (see A190352):	1
Minimum Tamb Temperature for Unit:	-30 °C
Maximum Tamb Temperature for Unit – T6:	+60 °C
Maximum Tamb Temperature for Unit – T4:	+80 °C

ESD(+)/ESD(-) Input & Output – Standard Version	
Applicable Terminals	7(+) / 6(-) – Input / 9(+) / 8(-) – Output
Intrinsically Safe Parameter (max) - U _i	28 V
Intrinsically Safe Parameter (max) - I _i	2 A
Intrinsically Safe Parameter (max) - P _i	6 W
Intrinsically Safe Parameter (max) - L _i	0 µH
Intrinsically Safe Parameter (max) - C _i	0 nF
ESD(+)/ESD(-) Input & Output – 12V Relay Version	
Applicable Terminals	7(+) / 6(-) – Input / 9(+) / 8(-) – Output
Intrinsically Safe Parameter (max) - U _i	13.3 V
Intrinsically Safe Parameter (max) - I _i	2 A
Intrinsically Safe Parameter (max) - P _i	6 W
Intrinsically Safe Parameter (max) - L _i	0 µH
Intrinsically Safe Parameter (max) - C _i	0 nF
Auxiliary Power Input (Control Board Power Option 'E' – See A190352)	
Applicable Terminals	5(+) / 4(-)
Intrinsically Safe Parameter (max) - U _i	28 V
Intrinsically Safe Parameter (max) - I _i	120 mA
Intrinsically Safe Parameter (max) - P _i	0.84 W
Intrinsically Safe Parameter (max) - L _i	0 µH
Intrinsically Safe Parameter (max) - C _i	0 nF
Analogue Output – Loop Powered (Control Board Power Option 'L' – See A190352)	
Applicable Terminals	16(+) / 17(-)
Intrinsically Safe Parameter (max) - U _i	28 V
Intrinsically Safe Parameter (max) - I _i	120 mA
Intrinsically Safe Parameter (max) - P _i	0.84 W
Intrinsically Safe Parameter (max) - L _i	0 µH
Intrinsically Safe Parameter (max) - C _i	0 nF

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Digital Output (only available for Control Board Power Option 'E' – See A190352)	
Applicable Terminals	1(-) / 2(+)
Intrinsically Safe Parameter (max) – U _o	28 V
Intrinsically Safe Parameter (max) – I _o	120 mA
Intrinsically Safe Parameter (max) – P _o	0.84 W
Intrinsically Safe Parameter (max) – L _o	25 µH
Intrinsically Safe Parameter (max) – C _o	5 nF
Digital Input (only available for Control Board Power Option 'E' – See A190352)	
Applicable Terminals	20(+) / 21(-)
Intrinsically Safe Parameter (max) – U _o	5.4 V
Intrinsically Safe Parameter (max) – I _o	1.65 mA
Intrinsically Safe Parameter (max) – P _o	2.2 mW
Intrinsically Safe Parameter (max) – L _o	50 µH
Intrinsically Safe Parameter (max) – C _o	10 nF

1.2 - VO variant with no control board fitted.

The VO Variant of the Type V unit does not contain a Control Board. It only includes switches, sensors or transmitters as defined in drawing A190354, see section 2.0 below.

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- 2.1 Simple Apparatus Switches
- 2.2 Hans Turck Sensors
- 2.3 Pepperl & Fuchs Sensors
- 2.4 Zettlex Transmitter

2.1 - Simple Apparatus Switches

2.1.1 Applicable Switch:	DPDT, Mechanical Switch
Function Reference (see A190352):	14
Intrinsically Safe Parameter (max) - U _i	28 V
Intrinsically Safe Parameter (max) - I _i	120 mA
Intrinsically Safe Parameter (max) - P _i	0.55 W
Intrinsically Safe Parameter (max) - L _i	<10 µH
Intrinsically Safe Parameter (max) - C _i	<10 nF
Minimum Tamb Temperature for Unit:	-40 °C
Maximum Tamb Temperature for Unit – T6:	+60 °C
Maximum Tamb Temperature for Unit – T4:	+85 °C
Switch Contact Resistance (max) – for calculating potential power dissipation:	0.2 ohms
Switch Wiring	6 single cores to be not less than 0.5 mm ² (min) with individual sheath diameter 2.1 mm (min) / 2.3 mm (max)

2.1.2 Applicable Switch:	SPDT Gold Plated Contact, Mechanical Switch
Function Reference (see A190352):	17
Intrinsically Safe Parameter (max) - U _i	28 V
Intrinsically Safe Parameter (max) - I _i	120 mA
Intrinsically Safe Parameter (max) - P _i	0.55 W
Intrinsically Safe Parameter (max) - L _i	<10 µH
Intrinsically Safe Parameter (max) - C _i	<10 nF
Minimum Tamb Temperature for Unit:	-40 °C
Maximum Tamb Temperature for Unit – T6:	+60 °C
Maximum Tamb Temperature for Unit – T4:	+85 °C
Switch Contact Resistance (max) – for calculating potential power dissipation:	0.2 ohms
Switch Wiring	3 single cores to be not less than 0.5mm ² (min) with individual sheath diameter 2.1mm (min) / 2.3 mm (max) See drawing A140026 for connection detail

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2.1.3 Applicable Switch:	SPDT Reed Switch
Function Reference (see A190352):	25
Intrinsically Safe Parameter (max) - U_i	28 V
Intrinsically Safe Parameter (max) - I_i	0.5 A
Intrinsically Safe Parameter (max) - P_i	5 W
Intrinsically Safe Parameter (max) - L_i	10 μ H
Intrinsically Safe Parameter (max) - C_i	<10 nF
Minimum Tamb Temperature for Unit:	-40 °C
Maximum Tamb Temperature for Unit – T6:	+60 °C
Maximum Tamb Temperature for Unit – T4:	+85 °C
Switch Contact Resistance (max) – for calculating potential power dissipation:	0.2 ohms
Switch Wire Type	Three Core – each strand not less than 0.125mm ² CSA with individual sheath dia 1mm (min). Outer sheath 3.0mm (min) / 3.5mm (max)-

2.1.4 Applicable Switch:	SPST or SPDT Reed Switch
Function Reference (see A190352):	40
Intrinsically Safe Parameter (max) - U_i	28 V
Intrinsically Safe Parameter (max) - I_i	120 mA
Intrinsically Safe Parameter (max) - P_i	0.55 W
Intrinsically Safe Parameter (max) - L_i	680 μ H
Intrinsically Safe Parameter (max) - C_i	<10 nF
Minimum Tamb Temperature for Unit:	-40 °C
Maximum Amb Temperature for Unit – T6:	+60 °C
Maximum Tamb Temperature for Unit – T4:	+85 °C
Switch Internal Inductance -	680 μ H
Switch Contact Resistance (max) – for calculating potential power dissipation:	10 ohms
Switch Wire Type	Two or Three Core – each strand not less than 0.125mm ² CSA with individual sheath dia 1 mm (min). Outer sheath 3.0mm (min) / 3.5mm (max)

2.2 – Hans Turck Sensors

Function additional items type	V3 Style or Non V3 Proximity Sensor
Function Reference (see A190352):	42 & 43
U_i	20 VDC
P_i	200 mW -Type Groups A, AD, G, GD, AX and GX 130 mW - Type Groups M, MD, S and SX 80 mW Type Groups K

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Maximum Tamb for Unit for T6:	+50 °C											
Maximum Tamb for Unit for T4:	+70 °C											
Zone	1 or 2											
C _i and L _i	<table border="1"> <thead> <tr> <th>Type Group <i>Typ-Gruppe</i></th> <th>C_i (nF)</th> <th>L_i (µH)</th> </tr> </thead> <tbody> <tr> <td>A, AD</td> <td>150</td> <td>150</td> </tr> <tr> <td>G, GD</td> <td>250</td> <td>350</td> </tr> </tbody> </table>			Type Group <i>Typ-Gruppe</i>	C _i (nF)	L _i (µH)	A, AD	150	150	G, GD	250	350
	Type Group <i>Typ-Gruppe</i>	C _i (nF)	L _i (µH)									
	A, AD	150	150									
	G, GD	250	350									
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SX	250	350										

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2.3 Pepperl & Fuchs Cuboidal

inductive Sensors

Electrical Data (Applies to all Pepperl & Fuchs Sensor Options in this Section)

Block Type FJ, NJ, NB and NC Sensors

Function additional items type	V3 Style or Non V3 Proximity Sensor										
<table border="1"> <tr> <td>Type 1</td> <td>Type 2</td> </tr> <tr> <td>Ui = 16 V</td> <td>Ui = 16 V</td> </tr> <tr> <td>Ii = 25 mA</td> <td>Ii = 25 mA</td> </tr> <tr> <td>Pi = 34 mW</td> <td>Pi = 64 mW</td> </tr> </table>	Type 1	Type 2	Ui = 16 V	Ui = 16 V	Ii = 25 mA	Ii = 25 mA	Pi = 34 mW	Pi = 64 mW			
Type 1	Type 2										
Ui = 16 V	Ui = 16 V										
Ii = 25 mA	Ii = 25 mA										
Pi = 34 mW	Pi = 64 mW										
Function Reference (see A190352):	42 & 43										
Applicable Sensors:	Pepperl & Fuchs Cuboidal inductive Sensors										
Minimum Tamb Temperature for Unit:	-20 °C										
Maximum Tamb Temperature for Unit – T6:	+50 °C										
Maximum Tamb Temperature for Unit – T4:	+75 °C										
Applicable Electrical Data for T6:	Type 1 or 2 (standard is type 2 data)										
Applicable Electrical Data for T4:	Type 1 or 2 (standard is type 2 data)										
Zone	1 or 2										
Ci and Li	types	CinF	Li µH								
	FJ 6-110-N...	150	110								
	FJ 7-N...	65	220								
	NCB2-F1-N0...	90	100								
	NCB2-V3-N0...	100	100								
	NCN2-F56-N1...	100	100								
	NBN3-F69-N0...	100	100								
	NBN4-V3-N0...	100	100								
	NBN4-V3-N0- Y189289	120	100								
	NBB15-U.K-N0...	110	200								
	NBB20-U.K-N0...	110	200								
	NBN30-U.K-N0...	105	300								
	NBN40-U.K-N0...	105	300								

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Ci and Li	types	CinF	Li pH
	NCN4-V3-N0...	100	100
	NCB15+U...+N0..	110	160
	NCB40-FP-N0..	220	360
	NCN15-M...-N0..	100	100
	NCB20-L2-N0...	110	200
	NCN20+U...+N0..	110	160
	NCN30+U...+N0..	110	160
	NCN40+U...+N0..	120	130
	NCN40-L2-N0...	105	300
	NCN50-FP-N0...	220	360

	NJ 0,8-F-N...	30	50
	NJ 1,5-F-N...	30	50
	NJ 2,5-F-N...	40	50
	NJ 2-F1-N...	30	50
	NJ 2-V3-N...	40	50
	NJ 3-V3-N...	40	50
	NJ 4-F-N...	150	100
	NJ 6-F-N	70	100
	NJ 10-F-N...	85	100
	NJ 15+U.+N...	140	130
	NJ 15-M1.-N...	140	100
	NJ 20+U.+N...	150	130
	NJ 30+U.+N...	160	130
	NJ 30P+U.+1N...	150	170
	NJ 40+...+N...	180	130
NJ 50-FP-N...	320	360	

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SN Type NJ and SJ Sensors

Function additional items type	V3 Style or Non V3 Proximity Sensor																																																															
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Slot Type SC and SJ Sensors

Function additional items type	V3 Style or Non V3 Proximity Sensor																																										
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Applicable Electrical Data for T6:	Type 1 or 2 (standard is type 2 data)																																										
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SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE
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Cylindrical Type NC and NJ Sensors

Function additional items type	V3 Style or Non V3 Proximity Sensor								
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Ui = 16 V	Ui = 16 V								
Ii = 25 mA	Ii = 25 mA								
Pi = 34 mW	Pi = 64 mW								
Function Reference (see A190352):	42 & 43								
Applicable Sensors:	Referenced Pepperl & Fuchs Sensors								
Minimum Tamb Temperature for Unit:	-20 °C								
Maximum Tamb Temperature for Unit – T6:	+50 °C								
Maximum Tamb Temperature for Unit – T4:	+75 °C								
Applicable Electrical Data for T6:	Type 1 or 2 (standard is type 2 data)								
Applicable Electrical Data for T4:	Type 1 or 2 (standard is type 2 data)								
Zone	1 or 2								
Ci and Li									

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type	Cl/	Ll/
	nF	µH
NCB1.5...M...N0...	90	100
NCB2-12GK...-N0...	90	100
NCB2-12GM...-N0...	90	100
NCN4-12GK...-N0...	95	100
NCN4-12GM...-N0...	95	100
NCB5-18GK...-N0...	95	100
NCB5-18GM...-N0...	95	100
NCN8-18GK...-N0...	95	100
NCN8-18GM...-N0...	95	100
NCB10-30GK...-N0...	105	100
NCB10-30GM...-N0...	105	100
NCN15-30GK...-N0...	110	100
NCN15-30GM...-N0...	110	100
NJ 0,2-10GM-N...	20	50
NJ 0,8-4.5-N...	30	50
NJ 0,8-5GM-N...	30	50
NJ 1,5-6.5...-N...	30	50
NJ 1,5-10GM-N-Y...	20	50
NJ 1,5-8GM-N...	30	50
NJ 1,5-8-N...	20	50
NJ 1,5-18GM-N-D...	50	60
NJ 2-11-N...	45	50
NJ 2-11-N-G...	30	50
NJ 2-12GK-N...	45	50
NJ 2-12GM-N...	30	50
NJ 2-14GM-N...	30	50
NJ 2,5-14GM-N...	30	50
NJ 4-12GK-N...	45	50
NJ 4-14GK-N...	45	50
NJ 4-12GM-N...	45	50

type	Cl/	Ll/
	nF	µH
NJ 4-30GM-N-200... (oscillator)	70	100
NJ 4-30GM-N-200... (amplifier)		
NJ 5-10-11-N...	70	100
NJ 5-11-N...	45	50
NJ 5-18GK-N...	70	50
NJ 5-18GK-N-150...	70	50
NJ 5-18GM-N...	70	50
NJ 6-22-N...	130	100
NJ 8-18GK-N...	70	50
NJ 8-18GK-N-150...	70	50
NJ 8-18GM-N...	70	50
NJ 10-22-N...	130	100
NJ 10-30GK...-N...	140	100
NJ 10-30GM-N...	140	100
NJ 15-30GK...-N...	140	100
NJ 15-30GK-N-150...	140	100
NJ 15-30GM-N...	140	100
NJ 25-50-N...	150	140
NJ 20-40-N...	140	140
NCB4-12GM...-N0...	120	50
NCB8-18GM...-N0...	120	50
NCB15-30GM...- V0...	120	150

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2.4 - Zettlex Transmitter

Function additional item	Position Transmitter
Function Reference (see A190352):	70
Applicable Sensors:	ST-1509-V1-A ST-0907-V2-A ST-1910-V1-A ST-4312-V2-A
Intrinsically Safe Parameter (max) - U_i	28 V
Intrinsically Safe Parameter (max) - I_i	120 mA
Intrinsically Safe Parameter (max) - P_i	0.84 W
Intrinsically Safe Parameter (max) - L_i	5 μ H
Intrinsically Safe Parameter (max) - C_i	0 nF
Minimum Tamb Temperature for Unit:	-40 °C
Maximum Tamb Temperature for Unit – T6:	+50 °C
Maximum Tamb Temperature for Unit – T4:	+75 °C
Zone	1 or 2

SCHEDULE TO EU - TYPE EXAMINATION CERTIFICATE

CERTIFICATE NUMBER EMT19ATEX0027X

3. ATEX ONLY CERTIFICATES

3.1 IFM Sensors

Function additional items type	V3 Style or Non V3 Proximity Sensor
Function Reference (see A190352):	42 & 43
Applicable Sensors:	IFM Sensors
Minimum Tamb Temperature for Unit:	-20°C
Intrinsically Safe Parameter (max) - U _i	15 V
Intrinsically Safe Parameter (max) - I _i	50 mA
Intrinsically Safe Parameter (max) - P _i	120 mW
Maximum Tamb Temperature for Unit – T6:	+50°C
Applicable Electrical Data for T6:	As Below
Zone	1 or 2

C _i and L _i	Type	C_i	L_i
	NT5001	80 nF	70 μH
	NE5001	80 nF	70 μH
	NF5001	140 nF	340 μH
	NF5002	140 nF	340 μH
	NF5003	140 nF	130 μH
	NF5004	140 nF	130 μH
	NG5001	145 nF	45 μH
	NG5002	145 nF	45 μH
	NG5003	155 nF	50 μH
	NG5004	155 nF	50 μH
	NI5001	145 nF	140 μH
	NI5002	145 nF	140 μH
	NI5003	145 nF	110 μH
	NI5004	145 nF	110 μH
	NN5001	110 nF	135 μH
	NN5002	110 nF	135 μH
NS5002	80 nF	110 μH	