

TZIDC Electro-Pneumatic Positioner

Measurement made easy

Compact, well-proven, and flexible



ABB TZIDC
Electro-Pneumatic Positioner

- HART protocol
- For 4-20 mA two-wire technology
- Low operating cost
- Compact design
- Well-proven technology
- Robust and environmentally ruggedized
- Wide operating temperature range $-40^{\circ}\text{C} \dots 85^{\circ}\text{C}$ ($-40 \dots 185^{\circ}\text{F}$)
- Easy to commission, i° single pushbutton; ± operating philosophy
- Mechanical position indicator
- ATEX, FM, CSA, GOST and IECEx approvals
- For SIL2 safety loops

Part Number: V18345-1010221001/V18345.10.1.0.2.2.1.00.1



V18345-1010221001/V18345.10.1.0.2.2.1.00.1 Ordering Information



Variant	Main Code										Add. Code		
	1-6	7	8	9	10	11	12	13	14	15			
TZIDC Electro-Pneumatic Positioner, intelligent, configurable, with indicator and operator panel	V18345	X	X	X	X	X	X	X	X	X	X	X	XX
Case / Mounting													
Case made of aluminium, varnished, for mounting to linear actuators acc. DIN / IEC 534 / NAMUR or to rotary actuators acc. VDI / VDE 3845		1	0										
Case made of aluminium, varnished, with mechanical position indicator, for mounting to linear actuators acc. DIN / IEC 534 / NAMUR or to rotary actuators acc. VDI / VDE 3845		2	0										
Case made of aluminium, varnished, for integral mounting to control valves (see dimensional drawing)		3	0										
Case made of aluminium, varnished, with mechanical position indicator, for integral mounting to control valves (see dimensional drawing)		4	0										
Case made of aluminium, varnished, for mounting to rotary actuators acc. VDI / VDE 3845 with extended rotation angle up to 270°		5	0										
Case made of aluminium, varnished, with mechanical position indicator, for mounting to rotary actuators acc. VDI / VDE 3845 with extended rotation angle up to 270°		6	0										
SRemote sensor control unit	1)	7	0										
Input / Communication Port													
Input 4 - 20 mA, two-wire, with connector plug for LKS adapter		1											
Input 4 - 20 mA, two-wire, with connector plug for LKS adapter and FSK module for HART communication		2											
Explosion Protection													
Without		0											
ATEX II 2 G Ex ib IIC T6 resp. T4 Gb		1											
FM / CSA		2											
ATEX II 3 G Ex nA IIC T6 resp. T4 Gc		4											
IECEX Ex ib IIC T6 resp. T4 Gb		5											
IECEX Ex nA IIC T6 resp. T4 Gc		6											
ATEX II 2 G Ex ia IIC T6 resp. T4 Gb		7											
ATEX II 2 D Ex ia IIC T51°C resp. 81°C Db		8											
GOST Russia - Ex II 2 G EEx ib II C T6		B											
GOST Russia - 0 Ex ia IIC T6		E											
GOST Russia - Ex IAD 21 T5		F											
IECEX ia IIC T6 resp. T4 Gb		K											
Output / Safe Position (in case of an electrical power failure)													
Single acting, fail safe		1											
Single acting, fail freeze		2											
Double acting, fail safe		2)	4										
Double acting, fail freeze		2)	5										
Connections													
Cable: Thread 1/2-14 NPT, air pipe: Thread 1/4-18 NPT		2											
Cable: Thread M20 x 1.5, air pipe: Thread 1/4-18 NPT		5											
Cable: Thread M20 x 1.5, air pipe: Thread G 1/4		6											
Cable: Thread G 1/2, air pipe: Thread Rc 1/4		7											

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- 1) With standard characteristic curve, if delivered without remote sensor
- 2) Not for integral mounting

	Main Code																Add. Code
	Variant	1-6	7	8	9	10	11	12	13	14	15	16	XX				
TZIDC Electro-Pneumatic Positioner, intelligent, configurable, with indicator and operator panel	V18345	X	X	X	X	X	X	X	X	X	X	X	X	XX			
Option Modules for Analog or Digital Position Feedback																	
Without																	
Plug-in module for analog position feedback, signal range 4 ... 20 mA, two-wire														0			
Plug-in module for digital position feedback														1			
Plug-in module for shutdown function														3			
Plug-in module for analog position feedback, signal range 4 ... 20 mA, two-wire, and digital position feedback														4			
Plug-in module for analog position feedback, signal range 4 ... 20 mA, two-wire, and shutdown module														5			
Plug-in module for analog position feedback, 48 V DC														3			
Plug-in module for analog position feedback, 48 V DC														4			
Plug-in module for analog position feedback, 48 V DC														7			
Optional Mechanical Kit for Digital Position Feedback																	
Without														0			
Mechanical kit for digital position feedback with proximity switches SJ2-SN (NO or logical 1)														5			
Mechanical kit for digital position feedback with proximity switches SJ2-S1N (NO or logical 0)														6			
Mechanical kit for digital position feedback with 24 V AC / DC microswitches (change-over contacts)														7			
Design (Varnish / Coding)																	
Standard														1			
Special version for Chemical Industries														8) E			
Sprache der Dokumentation																	
German														M1			
Italian														M2			
Spanish														M3			
French														M4			
English														M5			
Swedish														M7			
Finnish														M8			
Polish														M9			
Portuguese														MA			
Russian														MB			
Czech														MC			
Dutch														MD			
Danish														MF			
Greek														MG			
Latvian														ML			
Hungarian														MM			
Estonian														MO			
Bulgarian														MP			
Romanian														MR			
Slovak														MS			
Lithuanian														MU			
Slovenian														MV			
SIL2 - Declaration of Conformity																	
SIL2 - Declaration of Conformity														9) CS2			
Certificate of Compliance																	
Certificate of compliance with the order acc. EN 10204-2.1 (DIN 50049-2.1) with item description														CF2			
Test report 2.2 acc. EN 10204 (DIN 50049-2.2)														CF3			



TZIDC Intelligent Positioner : V18345 – Intelligent, configurable with indicator and operator panel

Optional mechanical kit for digital position feedback: 1 – Case made of aluminium, varnished, protection IP 65 (NEMA 4X) for mounting to linear actuators acc. to DIN/IEC 534 / NAMUR or to rotary actuators acc. to VDI/VDE 3845 also ready for integral mounting

0 – Always 0

Input / communication port: 1 – Input 4...20 mA, two-wire with connector plug for LKS adapter

Explosion protection: 0 – without

Output / safe position (in case of an electrical power failure): 2 – Single acting, fail freeze

Connections: 2 – Cable: Thread 1/2-14 NPT; Air pipe: Thread 1/4-18 NPT

Option modules for analog or digital position feedback: 1 – Plug-in module analog position feedback (sign. range 4 ... 20 mA)

Optional mechanical kit for digital position feedback: 0 – without

0 – Always 0

Design (varnish / coding): 1 – Standard

V18345-1010221001/V18345.10.1.0.2.2.1.00.1 Dimension

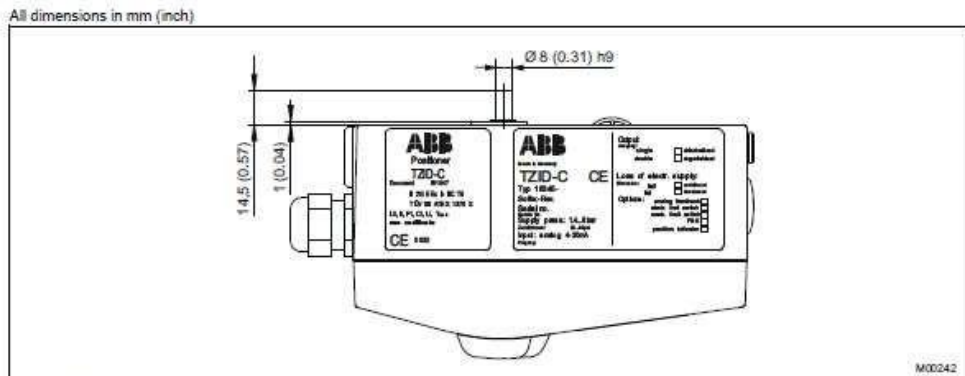


Fig. 9: Top view

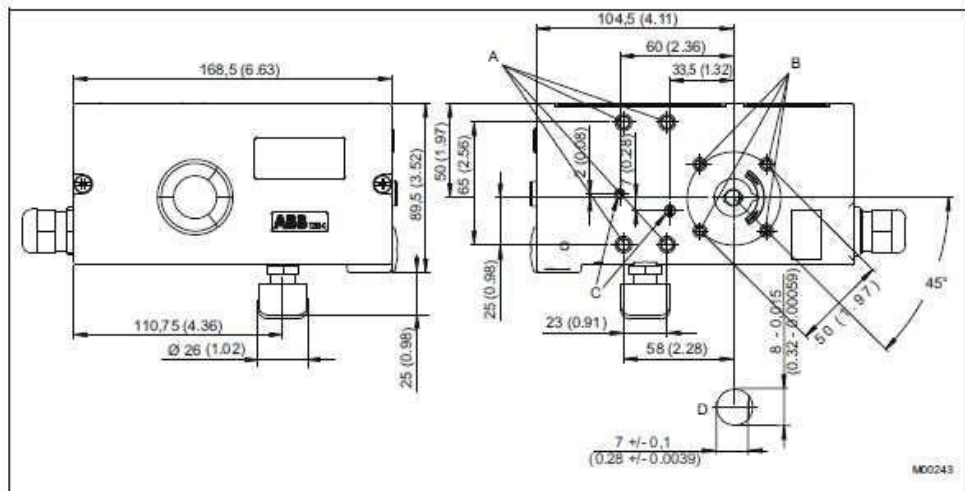


Fig. 10: Front and rear views

- A Tap hole M8 (10 mm low)
- B Tap hole M6 (8 mm low)

- C Tap hole M5 x 0.5 (air vents for direct mount)
- D Sensor shaft (larger than scale)

IZE_industries specializes in sales of ABB Positioner V18345-1010221001, Sweden ABB full range of products, ABB Positioner, ABB motor brush, ABB module, ABB motor, ABB Load cell, ABB pressure sensor, ABB transformers, ABB Low-voltage motors, ABB synchronous motors, ABB motors, ABB generators and more.

- ABB Positioner TZIDC V18345-1010121001
- ABB Positioner TZIDC V18345-1010221001
- ABB Positioner TZIDC V18345-1017121001
- ABB Positioner TZIDC V18345-1020121001
- ABB Positioner TZIDC V18345-1011121001
- ABB Positioner TZIDC V18345-1010551001
- ABB Positioner TZIDC V18345-2011423301
- ABB Positioner TZIDC V18345-1020221001
- ABB Positioner TZIDC V18345-2027551001
- ABB Positioner TZIDC V18345-1017121001
- ABB Positioner TZIDC V18345-1027120001
- ABB Positioner TZIDC V18345-2010460001
- ABB Positioner TZIDC V18345-102712000Y

ABB Positioner TZIDC V18345-3027121001
ABB Positioner TZIDC V18345-1010421001
ABB Positioner TZIDC V18345-1014121001
ABB Positioner TZIDC V18345-1010521001
ABB Positioner TZIDC V18345-1014121001
ABB Positioner TZIDC V18345-1010151001
ABB Positioner TZIDC V18345-1010261001

Who we are

IZE_industries was established in 2010. With its many years of professional experience, providing advanced manufacturing industries technology and equipment. Including advanced electrical automation, machinery and transmission, fluid control, instrumentation, tools and other products. As a partner in electrical, hydraulic and pneumatic solutions, we also provide our customers with consulting solutions, market knowledge, and value-added services. IZE offers everyone its profitable service.

What we offer

Engineering and Consulting

Full-service controls engineering and consulting solutions for industrial manufacturing equipment, including:

Electrical design

PLC programming

Robot programming

Process optimization

Down-time consultation

spare parts from the areas, including:

Hydraulic

Pneumatic

Industrial

Automation technology.

If you have any question for ABB Positioner V18345-1010221001, please feel free to dial 0086-21-3100 6702 or browse our website: www.ize-industries.com.

IZE_industries

Contact Information:

Tel: 0086-21-31006702 or 0086-21-35350722

Fax: 0086-21-35350711

Mobile: 0086-189 1750 1433

E-mail: sales@ize-industries.com Website:

www.ize-industries.com