ABB Service Manual

V18345-1010521001

1. Description

V18345-1010521001

3. Product Information

V18345-1010521001 | ABB | Electro-Pneumatic Positioner TZIDC

Manufacturer : ABB

Product no : V18345-1010521001

Product type : Electro-Pneumatic Positioner TZIDC

V18345 : TZIDC = intelligent, configurable with indicator and operator panel

Case : 10 = Aluminum Case IP 65 (NEMA 4X) No Mechanical Indicator

Input/Communication : 1 = 4-20ma with LKS Adapter

Protection : 0 = None

Action : 5 = Double Acting, Fail Freeze

Connections : 2 = Electrical: 1/2-14 NPT; Air: 1/4-18 NPT

Analog Feedback : 1 = Plug-in module for analog position feedback, signal range 4...20mA, two-wire

Mech Feedback : 00 = None

Design : 1 = Standard

Weight : 1.7 kg

Transmission data and influences

Output 1

Increasing: increasing signal 0...100 %

increasing output pressure OUT 1

Decreasing: increasing signal 0...100 %

decreasing output pressure OUT 1

Action (signal)

Direct: signal 4...20 mA = position 0...100 %

Reverse: signal 20...4 mA = position 0...100 %

Characteristic curve (travel = f -signal□)

linear, equal percentage 1:25 or 1:50 or 25:1 or 50:1

and freely configurable with 20 reference points

Characteristic deviation

≤ 0.5 %

Tolerance band

0.3...10 %, adjustable

Dead band

0.1...10 %, adjustable

Resolution (A/D conversion)

> 4000 steps

Sample rate

20 msec

Influence of ambient temperature

≤ 0.5 % for every 10 °C change in temperature

Influence of vibration

≤ ± 1 % up to 10 g and 80 Hz

Seismic requirements

Meets requirements of DIN/IEC 68_x0001_3_x0001_3 Class III for strong and

strongest earthquakes

Influence of mounting orientation

No effect