ABB Service Manual

V18345-1020521001

1. Description

V18345-1020521001

3. Product Information

V18345-1020521001 | ABB | Valve Positioner

Manufacturer : ABB

Product No. : V18345-1020521001

Product Type : Electro-Pneumatic Positioner

V18345-1020521001 =TZIDC Electro-Pneumatic Positioner

Case / Mounting : 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

0 : -

Input / communication port : 2 = Input 4...20 mA, two-wire FSK module for HART communication

Explosion protection : 0 = without

Output / safe position (in case of an electrical power failure) : 5 = Double 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 : -

Design (varnish / coding) : 1 = Standard

Weight : 1.7 Kg

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