

SAMSON Service Manual

V18345-1010251001

1. Description

Part Number: V18345-1010251001

3. Product Information

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Ordering Information

TZIDC-120 Intelligent Positioner: V18345 - intelligent, configurable with indicator and operator panel

Optional mechanical kit for digital position feedback: 2 - 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 failure): 2 - Single acting, fail freeze

Connections: 5 - Cable: Thread M20 x 1.5; 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

Supply pressure

1.4...6 bar (20...90 psi)

NOTICE: Do not exceed the max. operating pressure of the actuator!

Air consumption

< 0.03 kg/h / 0.015 scfm (independent of supply pressure)

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

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