

Data Sheet

10/18-0.20 EN

Intelligent Positioner TZID Meeting Highest Requirements

- Communication based on the “HART“ protocol
- High operational reliability through regular operational tests
- Electronical adjustment of operating data, in parts automatic (autostroke) and in parts manual
- Easily understandable adjustment mode, adjustment via the built-in operator panel or remotely using the standardized configuration program
- Characteristic linear, equal percentage, or with 20 configurable reference points
- Explosion protection certificates: ATEX - FM - CSA and others, intrinsically safe
- 4...20 mA input, 2-wire, Supply voltage 9.8 V DC or 10.8 V DC
- Complies with the directives for EMC and CE conformity
- Wide operating temperature range, -40 bis +85 °C
- Robust aluminum or stainless steel case
- Influence of shock and vibration < 1 % with a load of up to 10 g and frequencies between 20 and 80 Hz
- Non-contact (inductive) position sensor
- Stable control loop through self-adaptation and continuous modulation of the output
- Easy to install, all connections on ones side, separate terminal box for wiring
- Attachment to linear or rotary actutators
- Low operating cost, air consumption only 0.03 kg/h





Ordering information

Electro-Pneumatic Positioner TZID intelligent, configurable with display and operating panel signal input 4 ... 20 mA, two-wire	Variant digit No.	1-8	9	10	11	12	13	Code			
	Catalog No.	V18341H-									
Case material aluminium, varnished, protection IP 65 stainless steel 1.4581, protection IP 65			A	S							
Communication port / attachment with plug connector for LKS adapter attachment to linear actuators to DIN/IEC 534 / NAMUR attachment to rotary actuators 90° to VDI/VDE 3845 for aluminium case for stainless steel case with plug connector for LKS adapter and FSK modem for HART communication attachment to linear actuators to DIN/IEC 534 / NAMUR attachment to rotary actuators 90° to VDI/VDE 3845 for aluminium case for stainless steel case with external position sensor and plug connector for LKS adapter aluminium case for attachment to linear actuators to DIN/IEC 534 / NAMUR aluminium case for attachment to rotary actuators 90° to VDI/VDE 3845 with external position sensor and plug connector for LKS adapter & FSK modem aluminium case for attachment to linear actuators to DIN/IEC 534 / NAMUR aluminium case for attachment to rotary actuators 90° to VDI/VDE 3845 Note: For attachment according to standard, additional mounting material is required (see "Accessories") Cable length with external position sensor, standard length 10 m Cable length 20 m can be ordered separately as Special feature											
Explosion protection without ATEX EEx ia IIC ATEX EEx ia IIC, for inflammable gas for aluminium case for stainless steel case FM / CSA intrinsically safe ATEX Ex n other explosion protection certificates upon request											
Controller output / safe position single acting air is evacuated from actuator in case of electrical power failure actuator is blocked in case of electrical power failure double acting air is evacuated from actuator in case of electrical power failure actuator is blocked in case of electrical power failure											
Connections Cable: Thread 1/2-14 NPT Air pipe: Thread 1/4-18 NPT Cable: Thread M20 x 1.5 Air pipe: Thread 1/4-18 NPT Cable: Thread M20 x 1.5 Air pipe: Thread G 1/4											

1) Protection FM/CSA intrinsically safe only with cable connections 1/2-14 NPT



Ordering information (continued)

Electro-Pneumatic Positioner TZID intelligent, configurable with display and operating panel signal input 4 ... 20 mA, two-wire	Variant digit No.	1-8	13	14	15	16	17	Code			
		Catalog No.	V18341H-								
Option module Prepared for retrofitting option modules for analog or digital position feedback											
Option module without											
Analog position feedback, signal range 4 ... 20 mA, two-wire without explosion protection					9	0					
intrinsically safe ATEX and FM / CSA					0						
					1						
					2						
Mechanical kit for digital feedback of the min. / max. position											
without											
with proximity switches SJ2-SN (NC or logical 1) without explosion protection											
intrinsically safe ATEX											
					2)						
with proximity switches SJ2-S1N (NO or logical 0) without explosion protection											
intrinsically safe ATEX											
					3)						
					2) 3)						
Labeling (language)											
German											
English											
French											
(other languages upon request)											
Design (varnish / coding)											
standard											
(other designs upon request)											

Additional ordering information										
	Code									
Certificate of compliance										
Certificate of compliance with the order acc. to EN 10204-2.1 (DIN 50049-2.1)	CF1									
Certificate of compliance with the order acc. to EN 10204-2.1 (DIN 50049-2.1) with item description	CF2									
Test Report acc. to EN 10204-2.2 (DIN 50049-2.2)	CF3									
Constructors test certificate										
Constructors test certificate O acc.to DIN 55350-18-4.2.2	CH1									
Constructors test certificate M acc.to DIN 55350-18-4.2.2 with item description	CH3									
Constructors test certificate M acc.to DIN 55350-18-4.2.2 with item description and diagram	CH4									
Special features										
Cable lengths with external position sensor, standard cable length 10 m	K10									
Cable lengths with external position sensor, special cable length 20 m	K20									

2) no FM/CSA certificate available

3) only for ambient temperature range -25 °C to +85 °C

TZID	Catalog No.			
Attachment kit for Manufacturer/Type				
Air Torque SC 30	319604			
Air Torque SC-P-60-4	319604			
Air Torque SR 30	319603			
AMG SAD 010 ...SAF 040	319603			
AMG SAD 040 ...SAF 050	319605			
ARCA ARKAPAQ 812, 30mm	319631			
ARCA ARKAPAQ 812, 60mm	319633			
Automax DA 85...DA150	319603			
bar GTE / GTD 045...127	319604			
bar GTE / GTD 143...254	319605			
Bray 92 / 93 series	319603			
El-O-Matic ED / ED / PE / PD 25...350	319603			
El-O-Matic ED / ED / PE / PD 500...4004	319605			
FESTO DRD-4-F05...DRD-50F10	319603			
FESTO DRD-77-F10...DRD-255-F14	319605			
Fisher 657, 667	7959155			
Fisher 1051/30, 1052/30	7959135			
Fisher 1051/60, 1052/60	7959169			
Flow Serve DA 85...150	319603			
Foxboro V724xxx, V726xxx, V713-20/35mm	319601			
GEFA AC 020 ...AC 1750	319604			
GEFA MC 063 FA	319603			
Hytork XL1125, XL1370, XL2585, XL4580	319605			
Hytork XL26...XL680	319603			
Kinetrol Model 9	7959077			
Kinetrol Model 10	7959077			
Keystone 79U/E-002(S)...79U/E-181(S)	7959148			
Mapag A/F 30...A/F 500	319603			
Masoneilan Camflex II, Varimax 30000 series	319641			
Masoneilan VariPak 28000 series	7959164			
MaxFlo MaxFlo	7959139			
Mc-Rela L-10 Micro-Flow	7959078			
Mokveld replacement kit TZIS to TZID	7959213			
NAMUR DIN/IEC 534, stoke 10...85mm	319601			
NAMUR DIN/IEC 534, stoke 10.150mmmm	319602			
NELES B1JU8, B1J8U, B1CU9/20E, B1CU17/55, B1CU13-32, B1C6U-20U, 1JAU10/20, BC6U-20U	319603			
NELES BCE6-25U, BC6-20U, B1C6-20U, BJ8-20U, B1J8-20U	7959097			
NELES BC6-20, B1C6-20, BJ8-20, B1J8-20	7959096			
Norbro 10AR40, 20BR40, 20AR40, 20RDA40, 15AR40, 15BR40	319603			
Norbro 25AR40, 25BR40, 35AR40, 35BR40, 33-40, 30AR40	319604			
Norbro 45BR40, 45AR40	319606			
Prisma PP10, PP20	319604			
Prisma PPW	319603			
Remote Control RCD 05-DA/SR...RCD 60-DA/SR	319603			
Revo FD/FS 12, 25, 50	319603			
Revo FD/FS 90, 130, 180, 205, 306	319605			
Richter RA-1/2 046...RA-1/2 127	319604			
Richter RA-1/2 185...RA-1/2 300	319605			
Samson 3510-1	7959072			
Samson 3271, 271	7959124			
Samson 3277	7959076			
Samson 3278/160 flange F07	7959095			
VDI / VDE 3845 130/30mm	319605			
VDI / VDE 3845 130/50mm	319606			
VDI / VDE 3845 80/20mm	319603			
VDI / VDE 3845 80/30mm	319604			
Vetec R80... R250	319648			