

Linear actuator with integrated potentiometric position sensor DFPI-... -E-NB3-

General technical data

Mode of operation	Double-acting
Type of mounting	Mounting interface acc. ISO 15552
Positioner	integrated digital positioner (3-wire)
Piston diameter [mm]	100 ... 320
Stroke [mm]	X-stroke 40 ... 990
Connection	Sturdy flange socket for the protection of pneumatic and electric connections.
Safety function	Product version with piston rod retracting or advancing in the case of setpoint or operating voltage failure
Initialisation	Automatic selfadjustment function triggered via digital input

General electrical characteristic data

Operating voltage range [V DC]	24 V ±10%
Nominal operating voltage [V DC]	24
Setpoint input [mA]	4 ... 20
Position feedback [mA]	4 ... 20
Digital Input	Digital Input for initialisation UNenn = 24 V DC

Operating and environmental conditions

Operating pressure [bar]	3 ... 8
Nominal operating pressure [bar]	6
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-20...50
Degree of protection	IP65, IP67, IP69K, NEMA4
Corrosion resistance class	3
ATEX category	II 3GD

Material data

Piston rod	High-alloy stainless steel
Cylinder barrel	Anodised wrought aluminium alloy
Bearing cap	Coated die-cast aluminium
End cap	Coated wrought aluminium alloy
Tie rod	High-alloy stainless steel
Screws/Nuts	High-alloy stainless steel or coated steel
Piston rod wiper seal	Ø100 TPE-U (PU) Ø 125 ... 320 NBR
Note on materials	RoHS-compliant

DFPI-NB3 specific accessory parts

Adapter for direct mounting of ext. Positioner to actuator	DADG-AK-F6-A2
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ISO 15552 accessory parts in standard or corrosion-resistant version

Foot and flange mountings	HNC/CRHNC, HNG, FNC/CRFNG, FNG
Piston rod attachments and couplings	SGS, SGA, SG FK, KSG, CRSGS, CRSG, CRFK
Swivel flanges and clevis foot	ZNCF/CRZNG, LNZG, CRLNZG, SNC, SNG, SNCB/SNCB-...-R3, SNGB, SNCS, SNCL, SNGL, LN, LNG, LSNG, LSNSG, LBG, LQG, CRLNG
Proximity sensor for T-slot	CRSMT-8-..., CRSMT-8M-..., SMT-8M-A...EX2, SDBT-MS...EX6
Mounting kits for proximity sensors	SMBZ-8-32/100, DASP-M4-