

Linear actuating drive AG 91.3, AG 93.3

- Linear actuating drive with permanently excited synchronous machine (BLDC motor), particularly suitable for applications with high levels of running smoothness and long lifespan
- High-resolution Multiturn encoder to detect the rotor position and the absolute position
- Absolute position detection, even in cases of voltage failure (without buffer battery)
- Space-saving design through integrated control electronics
- High power density and overload capability
- Integrated temperature monitoring
- Simple configuration via Web-Based Management with standard web browser



Mounting parts for AG 91.. / AG 93..
Mat. no. 472974

Control structure, linear actuating drive

Functions

Cascaded control structure for different tasks:

- Position control
- Speed control
- Torque control

Limiting of the relevant process variables

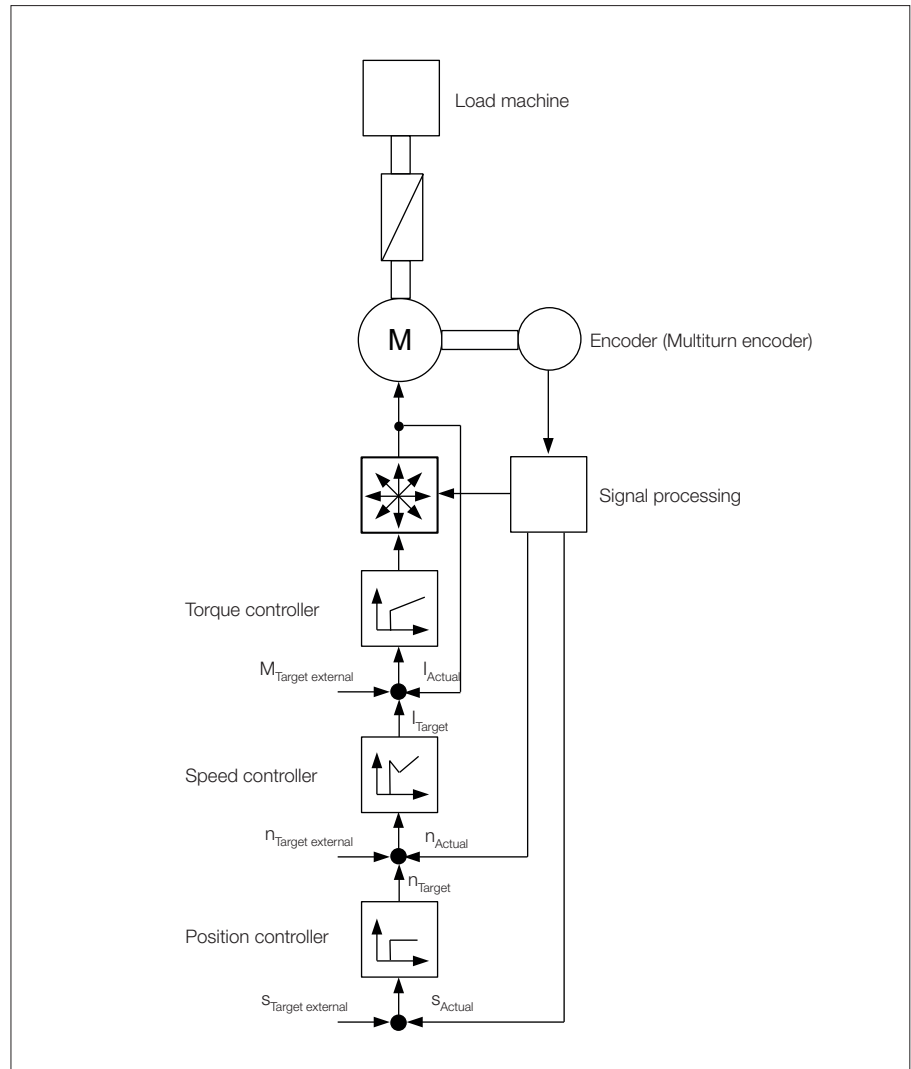
- Position
- Speed
- Acceleration
- Surge
- Force

State monitoring of the relevant process variables

- Temperature
- Current
- Power consumption

Fieldbus connection, allowing immediate inclusion in the existing infrastructure

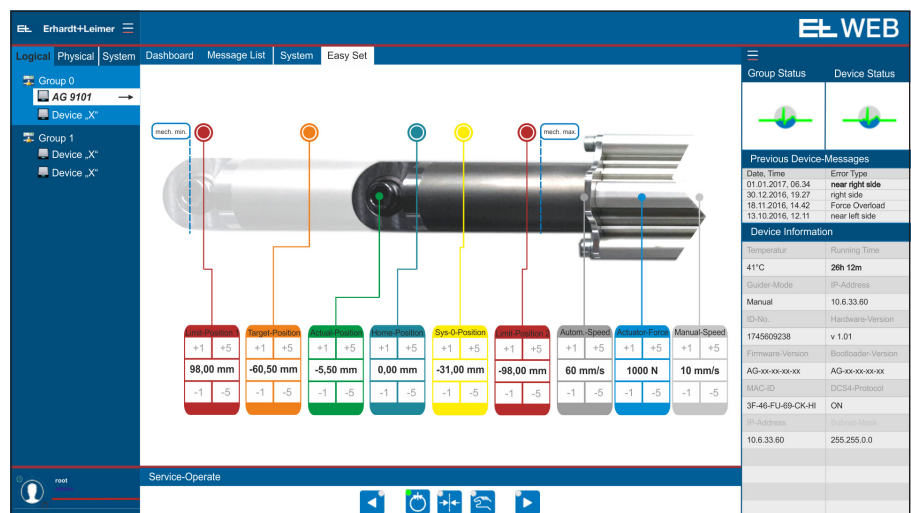
- ProfiNet (GSD)
- Ethernet/IP (EDS)
- Ethernet UDP



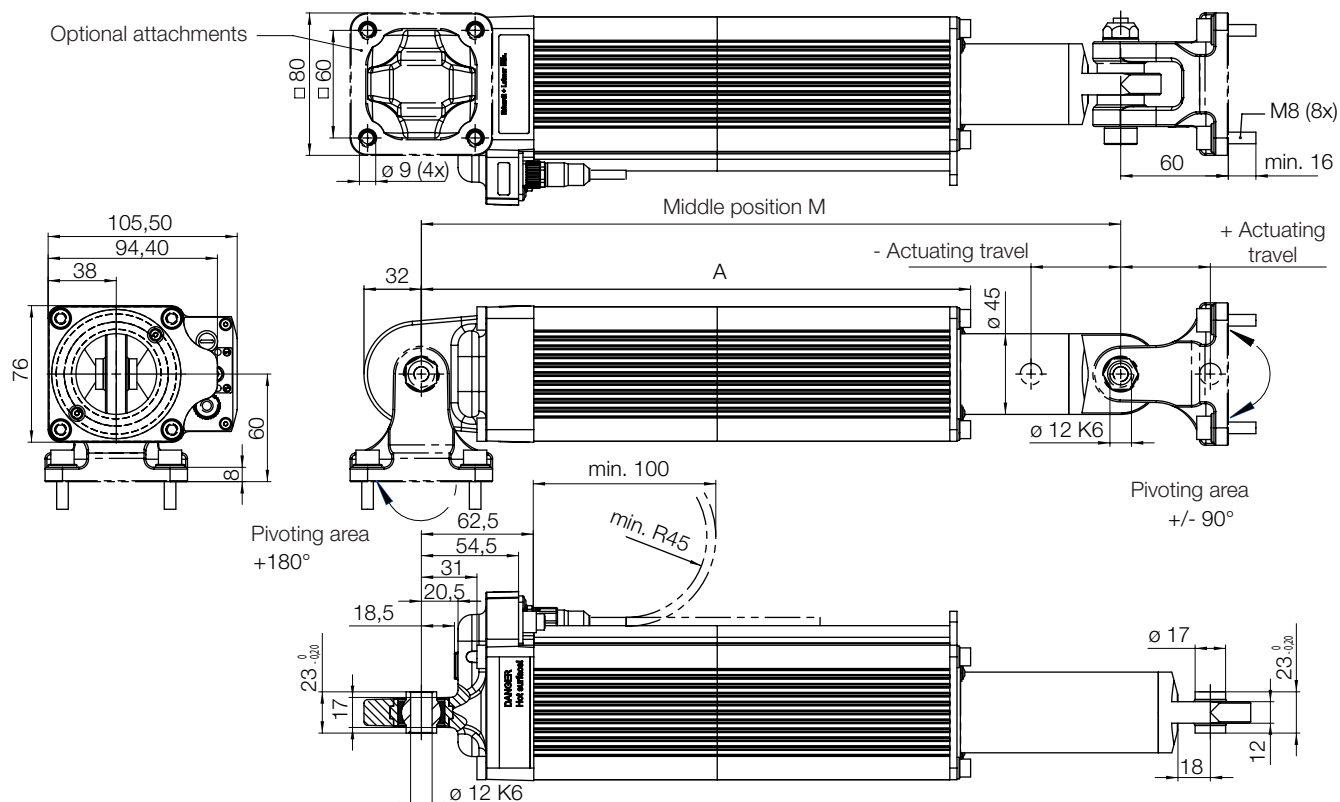
Control structure

Commissioning and service

- BLDC motor with integrated web server
- Customer-friendly commissioning with prompts and service via standard web browser
- All the necessary functions can be displayed and configured in the browser
- Network overview
- Control group overview
- Parameter overview, drives



Parameter overview, actuating drive



Use dimensioned drawing AG_9103 - 158971 for planning.

Selection tables

Type	Nominal actuating travel (mm)	Nominal actuating force (N)	Nominal actuating speed (mm/s)
AG 9103	± 25	1000	60
AG 9113	± 50	1000	60
AG 9123	± 75	1000	60
AG 9133	± 100	1000	60
AG 9313	± 50	3000	30
AG 9333	± 100	3000	30
AG 9343	± 150	3000	30
AG 9353	± 200	3000	30

Type	M (mm)	A (mm)
AG 9103	285	227
AG 9113	360	277
AG 9123	435	327
AG 9133	510	377
AG 9313	390	307
AG 9333	540	407
AG 9343	745	568
AG 9353	895	668

Technical Data

Operating voltage	24 V DC
Nominal value	20 to 30 V DC
Nominal current	5.6 A (AG 91.3) 7.7 A (AG 93.3)
Nominal actuating force	1000 N (AG 91.3) 3000 N (AG 93.3)
Nominal actuating speed	60 mm/s (AG 91.3) 30 mm/s (AG 93.3)
Insulation class	F
Multiturn encoder resolution	12 bits/revolution (4096 increments)
Electrical connections	M8 D-encoded, 4-pin
Fieldbus	M12 L-encoded, 5-pin
Ethernet UDP / Ethernet IP / Profinet	
Operating voltage	max. 3000 m above sea level
Installation altitude	0 to +60 °C
Ambient temperature	-20 to +80 °C
Storage temperature	15 to 95 % (without condensation)
Air humidity	Declaration of incorporation according to Machinery directive 2006/42/EC NRTL certificate CU 72170613 04
Certifications	IP 54
Protection class	3.4/3.9/4.4/4.5 kg (AG 91.3) 4.7/5.2/5.8/6.4 kg (AG 93.3)
Weight	

Subject to technical change without notice

Erhardt+Leimer GmbH

Albert-Leimer-Platz 1
86391 Stadtbergen, Germany
Phone +49 (0)821 2435-0
www.erhardt-leimer.com
info@erhardt-leimer.com

