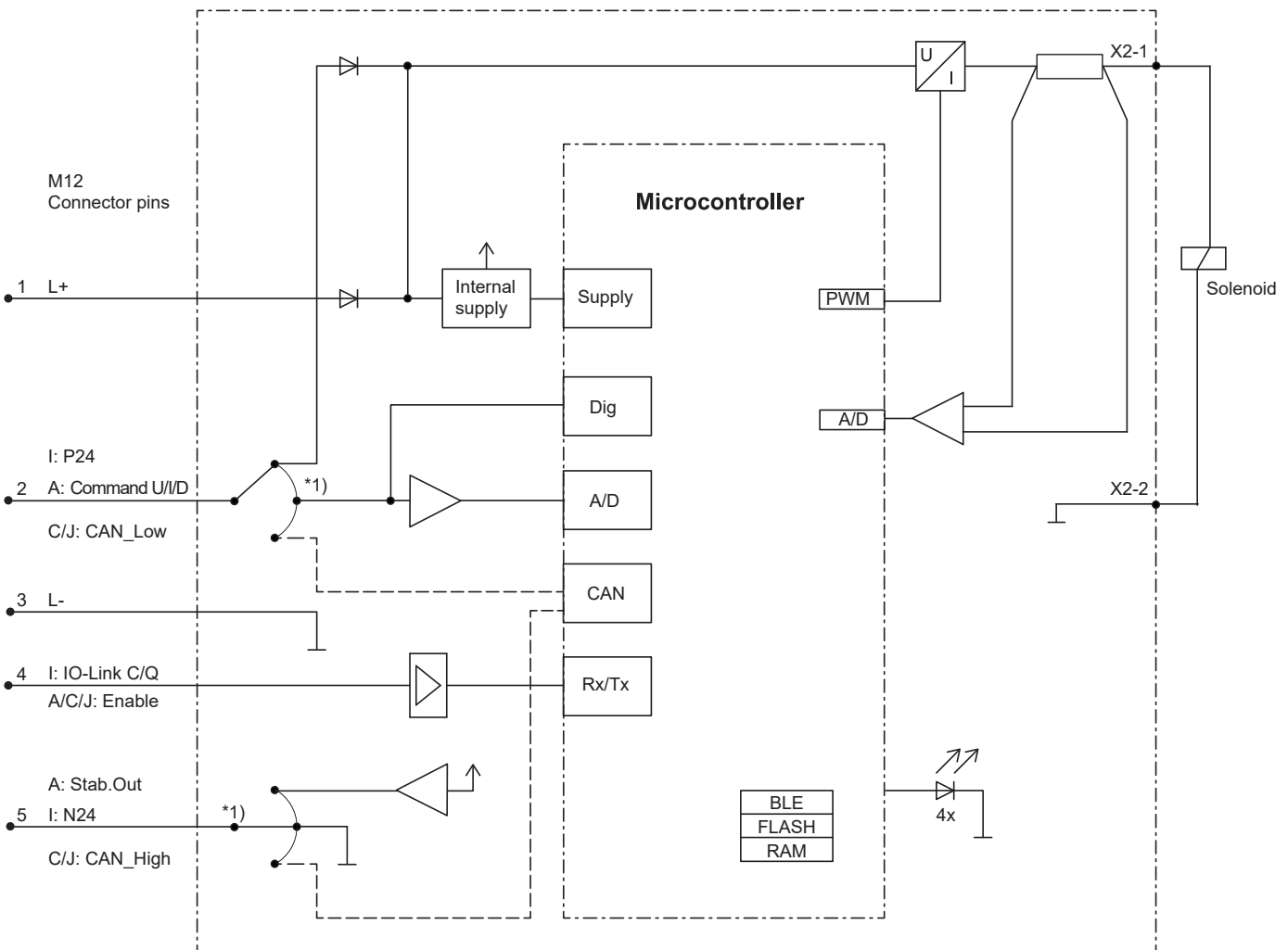
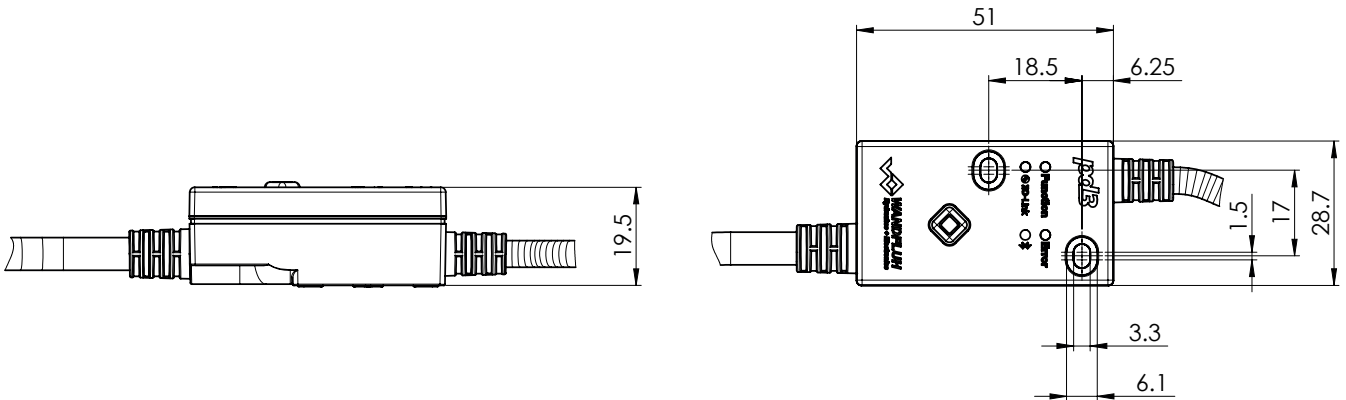


ELECTRICAL SPECIFICATIONS

Protection class	IP 67 acc. to EN 60 529	Dither	Frequency adjustable 4...500 Hz Factory setting 80 Hz
Supply voltage	IO-Link: 24 V (18..30V), analogue: 8..32V	Temperature drift	Level adjustable 0...400 mA Factory setting 180 mA
Residual ripple	< 1.3 Vpp	Enable input	<1 % bei $\Delta T = 40^\circ C$ 1 input high-active Switching threshold high 1/2 VCC +2V Switching threshold low 1/2 VCC -2V
Fuse	Low	Ramps	Adjustable 0...500 s
No-load current	Approx. 30 mA	IO-Link interface	Data line C/Q, COM2 = 38,4 kBaud Use master type B
Max. current consumption	No-load current + 2,5 A per solenoid	Bluetooth	Low Energy with access protection Contains FCC ID: QOQ11
Command value input	1 input non-differential Voltage / current (switchable by means of parameter) 0...+ 10V or 0/4...20mA Usable as frequency input (frequency 5...5000 Hz) or as PWM input (automatic frequency detection) or digital dig. switching threshold high >3V dig. switching threshold low <0.8V	Fieldbus (option)	CANopen (on request) J1939 (on request)
Resolution	12-bit	LEDs	Function green Bluetooth blue IO-Link green Error red
Input resistance	Voltage input >100 k Ω Load for current input = 124 Ω	Supply solenoid	with IO-Link galvanically separated via P24/N24
Stabilised output voltage	5 VDC max. load 20 mA	EMV	2014/53/EU (Radio Equipment Directive) ETSI EN 300 328 47 CFR, Part 15 / ICES-003 ETSI EN 301 489-1 / 301 489-17
Solenoid current:		Immunity	EN 61 000-6-2
• Minimal current I_{min}	Adjustable 0... I_{max} mA Factory setting 50 mA	Emission	EN 61 000-6-4
• Maximal current I_{max}	Adjustable I_{min} ...2500 mA Factory setting 700 mA		

BLOCK DIAGRAM


*1) fix selection according to type code

DIMENSIONS

CONNECTOR ASSIGNMENT

 Valve connection cable (X1)
 With mounted M12 connector
 5-pole male A coded

Typ analogue

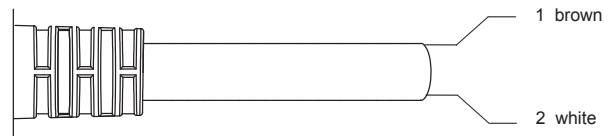
- 1 (brown) Supply voltage VCC +
- 2 (green) Command value signal
- 3 (grey) Supply 0 VDC/GND
- 4 (white) Digital input
- 5 (yellow) Stabilised output voltage*

Typ I/O-Link

- L+ supply voltage +
- P24/2L+ additional supply +
- L-supply 0 VDC/GND
- C/Q
- N24/2L-additional supply 0 VDC

Solenoid cable (X2)

Open end for free choice of the valve connection plug



- 1 = Solenoid +
- 2 = Solenoid -

*Caution: Some M12 distributor boxes have the earth connection on pin 5 → Short-circuit hazard!

START-UP

Information regarding installation and commissioning are contained in the information leaflet supplied with the amplifier electronics and in the operating instructions.

 Additional information can be found on our website:
www.wandfluh.com

Free-of-charge download:

- Operating instruction (*.pdf)
- Wandfluh App for Android (Google Play) and iOS (App Store)
- IO-Link Interface Description

ADDITIONAL INFORMATION

 Wandfluh electronics general
 Proportional spool valves
 Proportional pressure valves
 Proportional flow control valves
 Solenoid coil with PD3

Wandfluh documentation register	1.13
Proportional spool valves register	1.10
Proportional pressure valves register	2.3
Proportional flow control valves register	2.6
Solenoid coil with PD3 register	1.1-331

ADJUSTMENTS

The PD3 electronics has a Bluetooth interface. Via the Wandfluh App, the PD3 functions can be analysed and all parameters set.

FUNCTION DESCRIPTION
