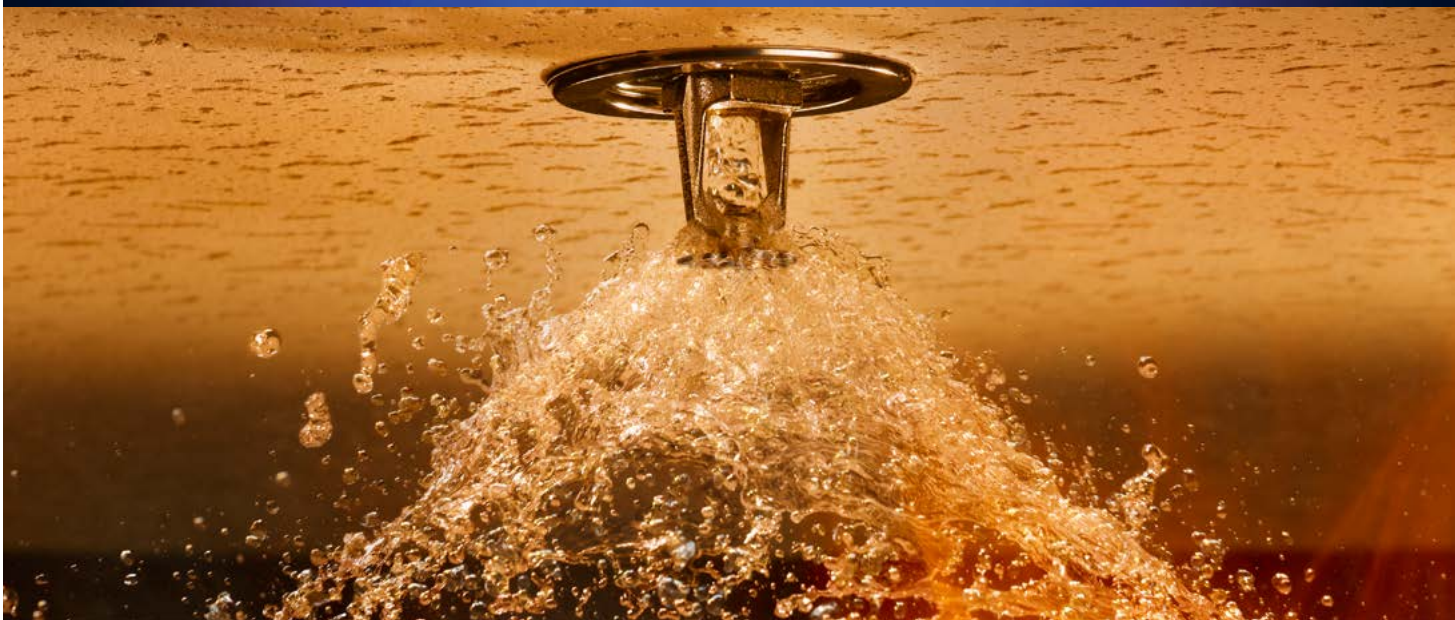


Fire pumps / sprinklers

Application support for DG1



Powering Business Worldwide



Configure fire pumps individually

Fire Pumps and sprinklers have special requirements. Principally nobody wants to use them, but if they are needed, a use even beyond the device-limits must be ensured.

Main requirements are robustness and the safety not to react on any fault with a stop. The drive must run as long as possible to save life.

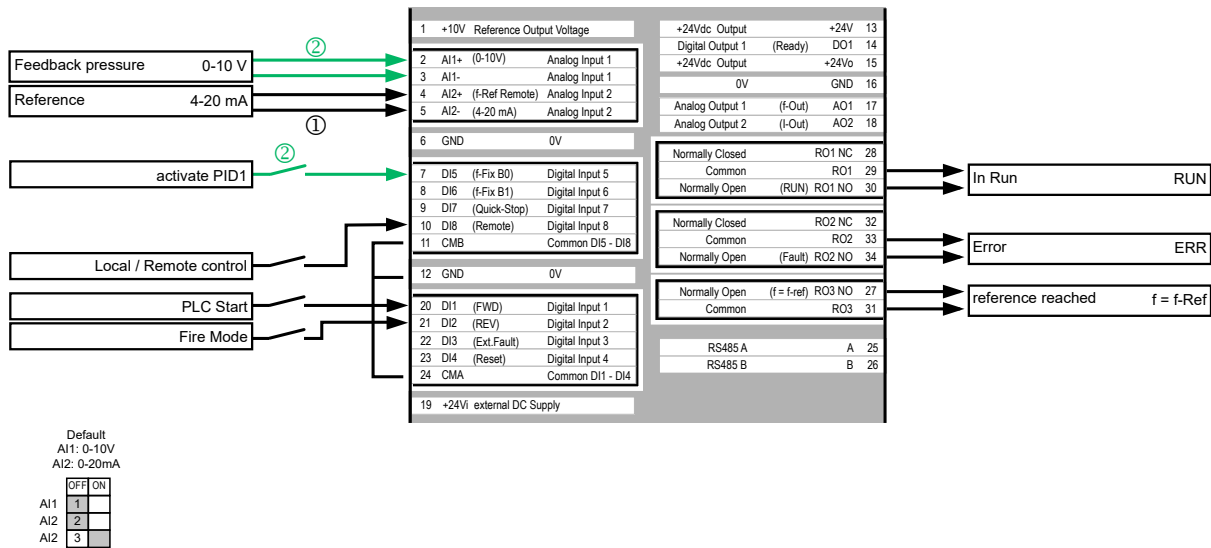


Robust	Fast	Simple	Service & support
• Best-in-Class ambient temperature range from -30 °C up to +60 °C • IP54 designs provide increased environmental protections • Conformal coated boards protect against aggressive ambient	• Best-in-class on-board inputs and outputs reduce PLC I/O requirements and option cards • 18 basic parameters, Quick Start Wizard and PC Tools for simpler commissioning	• Full text LCD keypad featuring copy/paste functionality and soft keys for faster navigation • Pre-configured applications to simplify complex parameter sets, from standard to multi-pump configurations • Extensive on-board communications reduces cost and improves control capabilities	• Standard two-year warranty with extensions available through certified commissioning • Dedicated team of application engineers and technical resources available to provide pre-sales and after-sales support • Aftermarket program providing spare parts, service and training classes

Wiring diagram sprinkler pump

Following a sample wiring diagram is shown for a sprinkler pump. Fire mode kann be configured as NC or NO.
Labels of the inputs/outputs are shown for default, eventually the need to be adapted to the desired function.

- ① Speed control / external control
② pressure feedback via a pressure sensor



Further application notes

Common hints	
Electromagnetic compatibility (EMC)	AP040043EN
Dual Rating – What exactly does that mean?	AP040114EN
Connecting drives to generator supplies	AP040169EN
DG1 specific hints	
Application manual DG1	MN040004EN
Communication Manual DG1	MN040010EN
Installation Manual DG1 FR 0-6	MN040002EN
Operating at low temperatures	AP040058EN
DG1 in Pump- and Fan applications	AP040128EN
Real Time Clock and use of the timers	AP040172EN
Analog I/Os	AP040129EN
Digital I/Os	AP040132EN
Load balancing in multi motor applications	AP040168EN
Motordata and V/f curves	AP040177EN
PID Controller	AP040164EN
Smoke Mode and Fire Mode	AP040065EN
Starting, Stopping and Operation	AP040176EN
Smoke Mode and Fire Mode	AP040065EN

Following link will show you the Application notes for DG1: [Eaton.com/ap/overview/drives](https://eaton.com/ap/overview/drives)
DG1-Manuals you can find at: [Eaton.com/dg1](https://eaton.com/dg1)