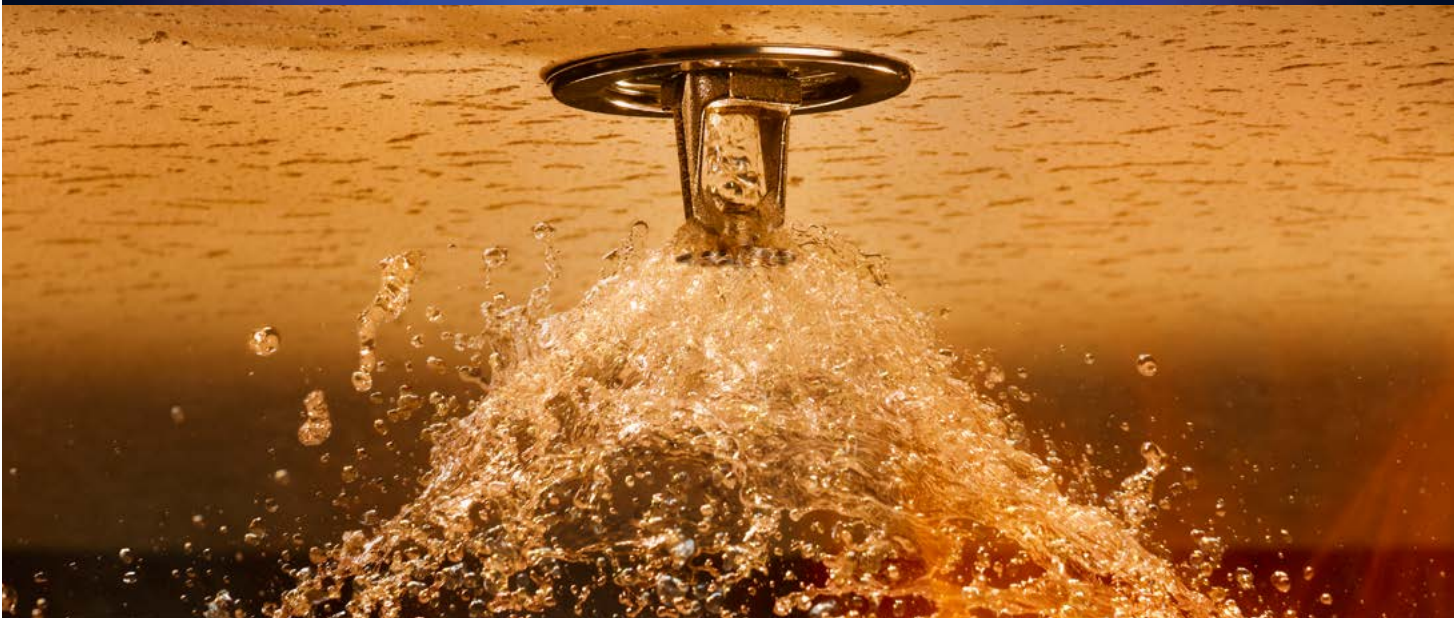


# Fire pumps / sprinklers

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
<ul style="list-style-type: none"> <li>• Best-in-Class ambient temperature range from -30 °C up to +60 °C</li> <li>• IP54 designs provide increased environmental protections</li> <li>• Conformal coated boards protect against aggressive ambient</li> </ul>	<ul style="list-style-type: none"> <li>• Best-in-class on-board inputs and outputs reduce PLC I/O requirements and option cards</li> <li>• 18 basic parameters, Quick Start Wizard and PC Tools for simpler commissioning</li> </ul>	<ul style="list-style-type: none"> <li>• Full text LCD keypad featuring copy/paste functionality and soft keys for faster navigation</li> <li>• Pre-configured applications to simplify complex parameter sets, from standard to multi-pump configurations</li> <li>• Extensive on-board communications reduces cost and improves control capabilities</li> </ul>	<ul style="list-style-type: none"> <li>• Standard two-year warranty with extensions available through certified commissioning</li> <li>• Dedicated team of application engineers and technical resources available to provide pre-sales and after-sales support</li> <li>• Aftermarket program providing spare parts, service and training classes</li> </ul>



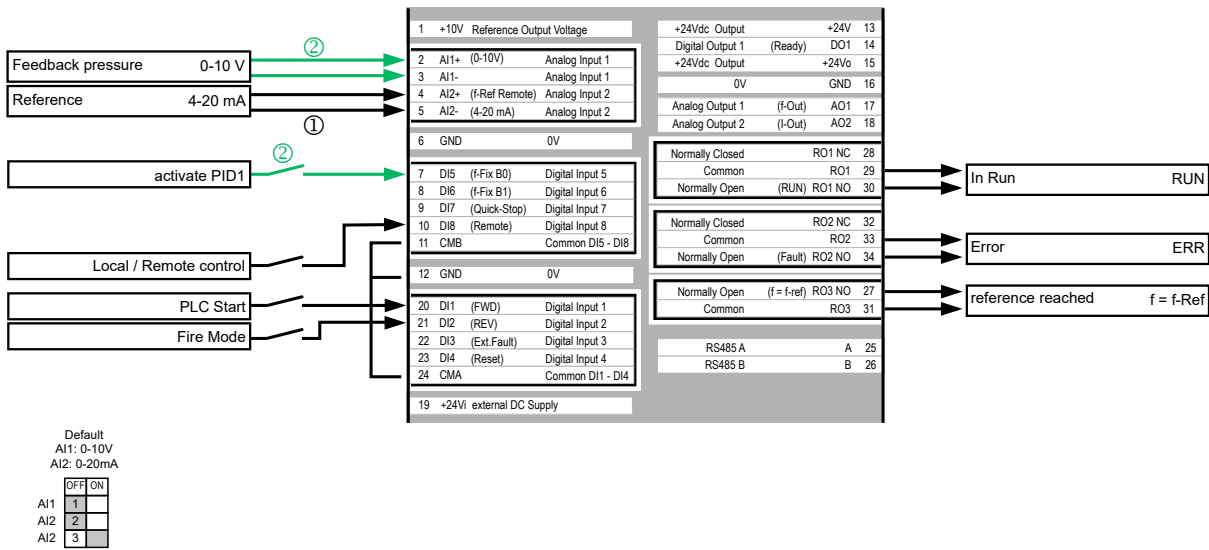
# Wiring diagram sprinkler pump

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.

Variants shown:

- 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)