

# 360 Degree Rotating Fire Protection System

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**Abstract:** Large factories, warehouses, and industrial production facilities always run the risk of fires breaking out. Lack of appropriate firefighting measures could result in disastrous consequences and along with financial losses and might even lead to massive loss of human life. Usual fire protection systems installed in buildings have the following disadvantage. They spray small amounts of water from each sprinkler which may not be enough to put out the fire. The sprinklers are not targeted and spray an entire floor or building ruining computers, furniture and paperwork. While this sprayer gun can spray water in desired quantity only at fire outbreak point to stop fire without ruining complete office furniture and electronics. This demo version is made to be remote controlled from few meters but future version will operate remotely from fire department.

**Keywords:** Motor, Pipe, Bearings, Nozzle, Remote, Control System

## REFERENCES

- [1]. Szpakowski, D.M.; Jensen, J.L. A review of the applications of remote sensing in fire ecology. *Remote Sens.* 2019, 11, 2638. [CrossRef]
- [2]. Veraverbeke, S.; Dennison, P.; Gitas, I.; Hulley, G.; Kalashnikova, O.; Katagis, T.; Kuai, L.; Meng, R.; Roberts, D.; Stavros, N. Hyperspectral remote sensing of fire: State-of-the-art and future perspectives. *Remote Sens. Environ.* 2018, 216, 1053121. [CrossRef]
- [3]. Yuan, C.; Liu, Z.; Zhang, Y. Aerial images-based forest fire detection for firefighting using optical remote sensing techniques and unmanned aerial vehicles. *J. Intell. Robot. Syst.* 2017, 88, 6353654. [CrossRef]
- [4]. Hendel, I.G.; Ross, G.M. Efficacy of Remote Sensing in Early Forest Fire Detection: A Thermal Sensor Comparison. *Can. J. Remote Sens.* 2020, 1315. [CrossRef]
- [5]. Töreyn, B.U.; Dedeoğlu, Y.; Güdükbay, U.; Cetin, A.E. Computer vision based method for real-time fire and flame detection. *Pattern Recognit. Lett.* 2006, 27, 49358. [CrossRef]