

APPLICATION NOTE AN013

Discrete output configurations

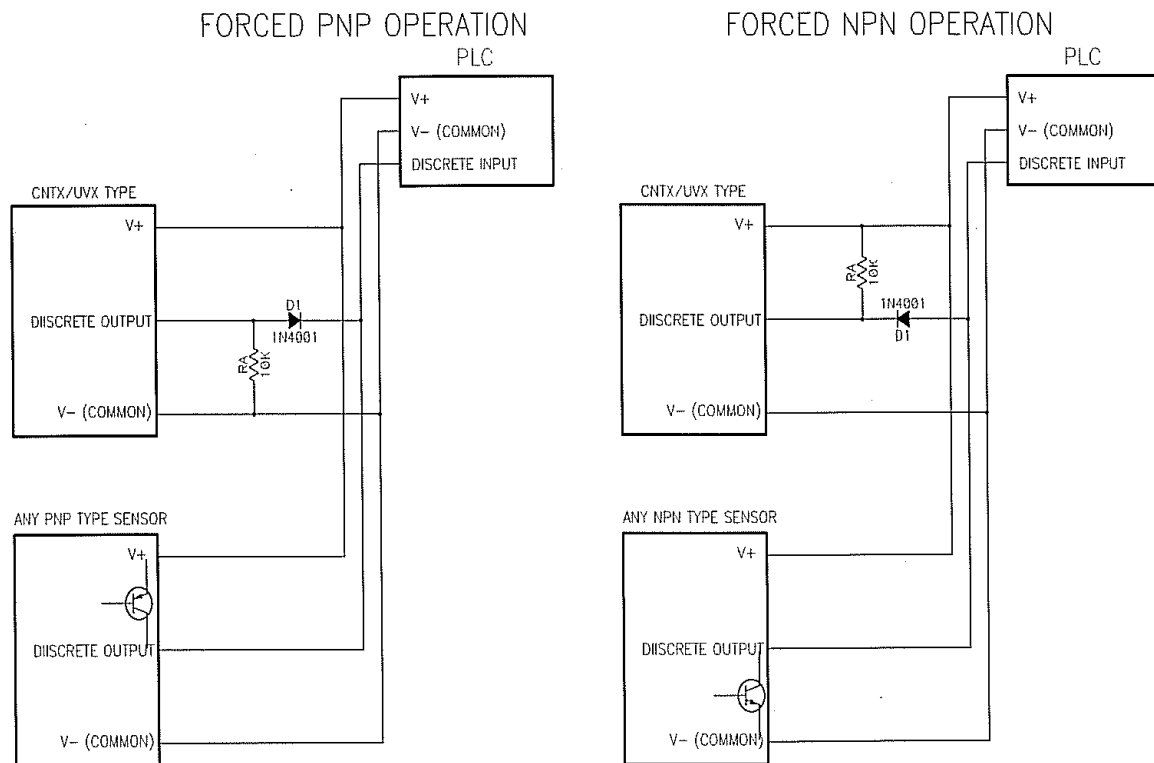
GENERAL PURPOSE

INDUSTRY: Any
APPLICATION: Forcing NPN or PNP operation

The Challenge

Many of the [EMX sensor products](#) such as the UVX, CNTX and CMYX feature automatic detection and configuration of the discrete output mode for PNP or NPN operation. This feature prevents connecting the outputs from multiple sensors in parallel. The following diagrams illustrate how to connect the EMX sensors in parallel to any other sensor.

The Solution



Equipment Required

Resistor, 10k ohm, min. .25W
Diode, 1N4001 or equivalent



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