



Product Type: Controllers

Reference: AN2052
Date: March 16, 2007

Detector 1-64 Volume Controlled Automatic Flash

EXAMPLE:

- This operation allows the local detectors and the Time Base Action Plans to determine if automatic flash will be enabled.
- Automatic flash will be enabled when enabled by a Time Base Action Plan, the volume on all detectors is below their threshold and a delay time has expired.
- The controller will stay in Automatic Flash for the MIN AUTO FLASH (MM-2-5) time regardless of the detector volume.
- All detectors that are going to be used to determine when Automatic Flash will be enabled must be assigned to a phase but that phase may not be programmed as In-Use (MM-1-2)
- Any detector that is not assigned will have a zero (0) volume and there not impact the action of the other detectors.

Program the controller's Time Base Action Plan to enable the operation. (This example uses NIC Special Function 1 located at COB = 512).

Program the Logic Processor

MM-1-8-2 Program LP steps 101 - 108 as follows:

The value "aa" is the threshold value for the specified detector.

Each detector may have a different value of "aa"

The value "b.b" is the time that all detectors must remain below their individually programmed threshold "aa" before automatic flash is enabled.

LP 101 (Volume threshold for detectors 1-9)

```

IF      COB CODE ON      512
AND    DETECTOR VOLUME  1 < aa
AND    DETECTOR VOLUME  2 < aa
AND    DETECTOR VOLUME  3 < aa
AND    DETECTOR VOLUME  4 < aa
AND    DETECTOR VOLUME  5 < aa
AND    DETECTOR VOLUME  6 < aa
AND    DETECTOR VOLUME  7 < aa
AND    DETECTOR VOLUME  8 < aa
AND    DETECTOR VOLUME  9 < aa

```

THEN SET LOGIC FLAG 1 ON

ELSE SET LOGIC FLAG 1 OFF

LP 102 (Volume threshold for detectors 10-18)

```

IF      LOGIC FLAG      1 IS ON
AND    DETECTOR VOLUME 10 < aa
AND    DETECTOR VOLUME 11 < aa
AND    DETECTOR VOLUME 12 < aa
AND    DETECTOR VOLUME 13 < aa
AND    DETECTOR VOLUME 14 < aa

```



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```

AND DETECTOR VOLUME 15 < aa
AND DETECTOR VOLUME 16 < aa
AND DETECTOR VOLUME 17 < aa
AND DETECTOR VOLUME 18 < aa

```

THEN

```

ELSE SET LOGIC FLAG 1 OFF

```

LP 103 (Volume threshold for detectors 19-27)

```

IF LOGIC FLAG 1 IS ON
AND DETECTOR VOLUME 19 < aa
AND DETECTOR VOLUME 20 < aa
AND DETECTOR VOLUME 21 < aa
AND DETECTOR VOLUME 22 < aa
AND DETECTOR VOLUME 23 < aa
AND DETECTOR VOLUME 24 < aa
AND DETECTOR VOLUME 25 < aa
AND DETECTOR VOLUME 26 < aa
AND DETECTOR VOLUME 27 < aa

```

THEN

```

ELSE SET LOGIC FLAG 1 OFF

```

LP 104 (Volume threshold for detectors 28-36)

```

IF LOGIC FLAG 1 IS ON
AND DETECTOR VOLUME 28 < aa
AND DETECTOR VOLUME 29 < aa
AND DETECTOR VOLUME 30 < aa
AND DETECTOR VOLUME 31 < aa
AND DETECTOR VOLUME 32 < aa
AND DETECTOR VOLUME 33 < aa
AND DETECTOR VOLUME 34 < aa
AND DETECTOR VOLUME 35 < aa
AND DETECTOR VOLUME 36 < aa

```

THEN

```

ELSE SET LOGIC FLAG 1 OFF

```

LP 105 (Volume threshold for detectors 37-45)

```

IF LOGIC FLAG 1 IS ON
AND DETECTOR VOLUME 37 < aa
AND DETECTOR VOLUME 38 < aa
AND DETECTOR VOLUME 39 < aa
AND DETECTOR VOLUME 40 < aa
AND DETECTOR VOLUME 41 < aa

```



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```

AND DETECTOR VOLUME 42 < aa
AND DETECTOR VOLUME 43 < aa
AND DETECTOR VOLUME 44 < aa
AND DETECTOR VOLUME 45 < aa

```

THEN

```

ELSE SET LOGIC FLAG 1 OFF

```

LP 106 (Volume threshold for detectors 46-54)

```

IF LOGIC FLAG 1 IS ON
AND DETECTOR VOLUME 46 < aa
AND DETECTOR VOLUME 47 < aa
AND DETECTOR VOLUME 48 < aa
AND DETECTOR VOLUME 49 < aa
AND DETECTOR VOLUME 50 < aa
AND DETECTOR VOLUME 51 < aa
AND DETECTOR VOLUME 52 < aa
AND DETECTOR VOLUME 53 < aa
AND DETECTOR VOLUME 54 < aa

```

THEN

```

ELSE SET LOGIC FLAG 1 OFF

```

LP 107 (Volume threshold for detectors 55-63)

```

IF LOGIC FLAG 1 IS ON
AND DETECTOR VOLUME 55 < aa
AND DETECTOR VOLUME 56 < aa
AND DETECTOR VOLUME 57 < aa
AND DETECTOR VOLUME 58 < aa
AND DETECTOR VOLUME 59 < aa
AND DETECTOR VOLUME 60 < aa
AND DETECTOR VOLUME 61 < aa
AND DETECTOR VOLUME 62 < aa
AND DETECTOR VOLUME 63 < aa

```

THEN

```

ELSE SET LOGIC FLAG 1 OFF

```



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```

LP 108 (Volume threshold for detector 64)
IF LOGIC FLAG 1 IS ON
AND DETECTOR VOLUME 64 < aa

THEN DELAY FOR b.b SECONDS
      SET AUTO FLASH ON

ELSE SET LOGIC FLAG 1 OFF

```

Program the Extended Option Enables (ASC3.ext file)

```

CONFIG=VOLUME CONTROL OF FLASH
0,101,107,DET VOL CONTROL OF TIME-BASE FLASH

```

Transfer the ASC3.db and ASC3.EXT file to the ASC/3 controller.

Enable the extended options required in MM-2-6-2