

# 871FMM2NP5E2

AB 871 Inductive Proximity Sensor Metal Flat Flush 5mm 10-30V DC 1.5mm NO PNP Shld 3 Wire 2m PVC



NON-CONTACT SENSORS



Allen-Bradley



|                |                            |
|----------------|----------------------------|
| Component type | Inductive proximity switch |
| Range          | Inductive Prox             |
| Model          | N/A                        |
| Product status | Existing                   |

The Allen-Bradley inductive proximity sensors detect metal objects without touching them. This technology is used in applications where the metal object to be detected is within an inch or two of the sensor face. Ideal for use in light-duty packaging applications and the harsh environments in automotive welding equipment or washdowns in food processing plants.

## ELECTRICAL

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Type of actuation                             | Metallic Target       |
| Switching distance                            | 4 mm                  |
| Voltage type                                  | DC                    |
| Rated control supply voltage $U_s$ at AC 50HZ | 20-265 V              |
| Rated control supply voltage $U_s$ at AC 60HZ | 20-265 V              |
| Max. output current at protected output       | 500 mA                |
| Type of switch function                       | Normally open contact |
| Type of switching output                      | Other                 |
| Switching frequency                           | 500 Hz                |
| Voltage drop ( $U_d$ )                        | 2 V                   |
| Supply voltage                                | 20-250 V              |
| Number of protected semiconductor outputs     | 1                     |

## COMMUNICATION

|                   |      |
|-------------------|------|
| Type of interface | None |
|-------------------|------|

## CONSTRUCTION

|                               |        |
|-------------------------------|--------|
| Construction type housing     | Cuboid |
| Material housing              | Metal  |
| IP rating                     | IP67   |
| Coating housing               | Other  |
| Cascadable                    | No     |
| Compression-resistant         | No     |
| Suitable for safety functions | No     |

## DIMENSIONS

|                         |       |
|-------------------------|-------|
| Length of sensor        | 50 mm |
| Cable length            | 2 m   |
| Weight (cable excluded) | 10 g  |

## ENVIRONMENT

|                     |             |
|---------------------|-------------|
| Storage temperature | -30...80 °C |
|---------------------|-------------|

## CERTIFICATES/APPROVALS

|                            |      |
|----------------------------|------|
| SIL according to IEC 61508 | None |
|----------------------------|------|

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|                                    |      |
|------------------------------------|------|
| Explosion safety category for gas  | None |
| Explosion safety category for dust | None |