

# 872CDH5NP18D4

AB 872 Inductive Proximity Sensor 18mm 10-30V DC 5mm Shld  
NO PNP 3 Wire Micro 4 DC QD



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                            | 5 mm            |
| Voltage type                                  | DC              |
| Rated control supply voltage $U_s$ at AC 50HZ | 0 V             |
| Rated control supply voltage $U_s$ at AC 60HZ | 0 V             |
| Type of switch function                       | Breaker contact |
| Type of switching output                      | NAMUR           |
| Switching frequency                           | 1500 Hz         |
| Supply voltage                                | 7-9 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               | Chromium-plated |
| Cascadable                    | No              |
| Compression-resistant         | No              |
| Suitable for safety functions | No              |

## MECHANICAL

|                                          |       |
|------------------------------------------|-------|
| Mechanical mounting condition for sensor | Other |
|------------------------------------------|-------|

## DIMENSIONS

|                         |       |
|-------------------------|-------|
| Diameter sensor         | 18 mm |
| Length of sensor        | 30 mm |
| Cable length            | 2 m   |
| Weight (cable excluded) | 75 g  |

## ENVIRONMENT

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

## CERTIFICATES/APPROVALS

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

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|                        |                                    |      |
|------------------------|------------------------------------|------|
| CERTIFICATES/APPROVALS | Explosion safety category for gas  | None |
|                        | Explosion safety category for dust | None |