# Emerson PR6423/000-010 CON021

8 mm Eddy Current Sensor and Panel Converter Set / Exact identity and technical profile

This reference isolates the published characteristics and engineering boundary of Emerson PR6423/000-010 CON021 without importing values from a neighboring suffix.

| | |
|---|---|
| **Sensor** | PR6423/000-010 |
| **Converter** | CON021 |
| **Probe class** | 8 mm |
| **Thread** | M10 x 1 |
| **Armor** | None |
| **Sleeve length** | 25 mm |

**TECHNICAL MARKER**

8 mm probe system

**TECHNICAL MARKER**

M10 x 1 unarmored body

**TECHNICAL MARKER**

25 mm sleeve length

**TECHNICAL MARKER**

5 m cable with Lemo end

## Technical boundary

The exact model and its published data govern this reference. Similar family names, suffixes or physical appearance do not establish the same electrical or software behavior.

| | |
|---|---|
| **Identity evidence** | Read PR6423/000-010 CON021 from the installed label and procurement record |
| **Function evidence** | Confirm the published 8 mm eddy current sensor and panel converter set role in the EPRO PR6423 / CON021 system |
| **Configuration evidence** | Retain the project, mapping, range, address or interface assigned to this position |
| **Release evidence** | Link final diagnostics to a witnessed field or operator response |

**TECHNICAL DECISION**

Accept PR6423/000-010 CON021 only when its identifier and installed-system role agree.

**CHANGE BOUNDARY**

Any redesign beyond the documented PR6423/000-010 CON021 position requires separate engineering approval.

# Emerson PR6423/000-010 CON021

8 mm Eddy Current Sensor and Panel Converter Set / Published characteristics

This matrix groups the published PR6423/000-010 CON021 characteristics that control identification, configuration and engineering review. Each entry remains tied to the exact 8 mm eddy current sensor and panel converter set record.

| | |
|---|---|
| **Sensor** | PR6423/000-010 |
| **Converter** | CON021 |
| **Probe class** | 8 mm |
| **Thread** | M10 x 1 |
| **Armor** | None |
| **Sleeve length** | 25 mm |
| **Cable length** | 5 m |
| **Cable end** | Lemo |
| **Nominal scale factor** | 8 V/mm |
| **Standard measuring range** | 2 mm |

### INTERPRETATION

Use every PR6423/000-010 CON021 value with the exact installed configuration.

### DESIGN RECORD

Retain the drawing, project and channel or interface assignments that make PR6423/000-010 CON021 data actionable.

| | |
|---|---|
| **Nameplate check** | Manufacturer and full reference agree with the controlled record |
| **Range check** | Published operating or signal data agree with the configured use |
| **Interface check** | Backplane, terminal, cable, network or memory arrangement is documented |
| **Limit check** | Loading, channel count, supply or lifecycle constraint is reviewed |
| **Evidence close** | Source title and applicable product record are retained with the decision |

### NO BORROWED VALUES

Another Emerson suffix cannot fill a missing PR6423/000-010 CON021 parameter.

### ENGINEERING OUTPUT

Record the exact value used, its purpose and any unresolved item before selection.

# Emerson PR6423/000-010 CON021

8 mm Eddy Current Sensor and Panel Converter Set / System role and data flow

### Sleeve-bearing radial vibration

Measures shaft motion relative to the bearing housing.

### Axial position channels

Tracks thrust movement against a prepared ferromagnetic target.

### Phase-reference measurements

Supplies a proximity signal where the installation design calls for one.

### Panel converter renewal

Restores a PR6423 channel using the documented CON021 interface.

## Signal and configuration path

| | |
|---|---|
| **Field layer** | Sensors, loads, terminal or operator interface assigned by the design |
| **Module layer** | PR6423/000-010 CON021 performs its published 8 mm eddy current sensor and panel converter set role |
| **Control layer** | PLC project, address map or runtime application interprets the exchanged data |
| **Acceptance layer** | Diagnostics and intended process response are witnessed together |

## Engineering boundary

Application examples describe system roles only. They do not establish automatic interchangeability, replacement approval or suffix equivalence.

| | |
|---|---|
| **Observed input** | Field, network or operator condition presented to PR6423/000-010 CON021 |
| **Published action** | The documented 8 mm eddy current sensor and panel converter set function processes that condition |
| **Configured interpretation** | PLC logic, HMI project or station mapping assigns system meaning |
| **Expected output** | A defined state, value, message or command is produced |
| **Acceptance proof** | The complete path is witnessed under controlled conditions |

### APPLICATION RECORD

Tie each PR6423/000-010 CON021 use case to the installed drawing or project tag.

### EXCEPTION CONTROL

Document and resolve any behavior that differs from the approved response.

# Emerson PR6423/000-010 CON021

8 mm Eddy Current Sensor and Panel Converter Set / Engineering decisions

### SUPPORTED IDENTITY

PR6423/000-010 CON021

### PUBLISHED FUNCTION

8 mm Eddy Current Sensor and Panel Converter Set

### SYSTEM CONTEXT

EPRO PR6423 / CON021

### UNSUPPORTED INFERENCE

A nearby model, suffix or family resemblance

## Model-specific questions

**Which thread is specified for Emerson PR6423/000-010 CON021?**

The 000 sensor execution uses an M10 x 1 thread without armor.

**How long is the cable on Emerson PR6423/000-010 CON021?**

The cable-order code identifies a five-metre cable.

**What standard measuring range applies to Emerson PR6423/000-010 CON021?**

The matched PR6423 system uses a 2 mm standard range.

**What installation record is essential for Emerson PR6423/000-010 CON021?**

Retain sleeve position, bracket location, initial gap, target material, cable route and converter assignment.

**What sleeve length is encoded by Emerson PR6423/000-010 CON021?**

The third base-code digit identifies a 25 mm sleeve.

**Which connector ends the cable on Emerson PR6423/000-010 CON021?**

The final zero code specifies a Lemo connector.

**Which nominal scale factor applies to Emerson PR6423/000-010 CON021?**

The manufacturer specification lists 8 V/mm nominal sensitivity.

**What proves correct operation of Emerson PR6423/000-010 CON021?**

Move the target through a controlled range, verify polarity and scale, then confirm the expected vibration signal at the monitor.

## Decision closeout

Close the PR6423/000-010 CON021 technical review with the exact identifier, applicable published limits and the installed configuration assumptions explicitly recorded.

| | |
|---|---|
| **Question coverage** | Identity, function, configuration and field handling addressed |
| **Open item** | Any unanswered exact-model point is listed without guessed data |
| **Decision owner** | Responsible engineering or maintenance role identified |
| **Supporting record** | Drawing, project revision, readings and witnessed result attached |

### APPROVAL

The PR6423/000-010 CON021 decision is accepted only within the documented scope.

### REVIEW TRIGGER

A different suffix, wiring arrangement, project or application requires a new review.

# Emerson PR6423/000-010 CON021

8 mm Eddy Current Sensor and Panel Converter Set / Evidence and support

| | |
|---|---|
| **Exact product** | Emerson PR6423/000-010 CON021 |
| **Technical class** | 8 mm Eddy Current Sensor and Panel Converter Set |
| **Platform** | EPRO PR6423 / CON021 |
| **Evidence use** | Exact-model characteristics and engineering boundary |
| **Record with** | Installed drawing, project and acceptance evidence |

| | |
|---|---|
| **Retained evidence** | Nameplate, source title, configuration baseline and field record |
| **Installation evidence** | Isolation, conductor/connector record and post-work inspection |
| **Commissioning evidence** | Diagnostics, measurements and intended response |
| **Final record** | Responsible witness, date, exceptions and approved disposition |

## VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

| | |
|---|---|
| **Emerson KC4011X1 BW1** | View Emerson KC4011X1 BW1 page |
| **Emerson KJ2201X1 BA1** | View Emerson KJ2201X1 BA1 page |

## MANUFACTURER EVIDENCE RECORD

**Emerson PR6423 8 mm Sensor and CON021 Signal Converter Data Sheets**

Manufacturer specifications and ordering matrix

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Send the exact model, quantity, destination and requested condition for a quotation.