

Installation Identity and Scope

Emerson EZ1081-03-00-010 + EZ1901-090 combines an armored M10x1 EZ1081 sensor with a 1 m integral cable and an armored EZ1901 extension cable for a documented 10 m system length. The configured sensor provides a 2 mm eddy-current measuring range for compatible EZ1000 conversion electronics.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	EZ1081-03-00-010 + EZ1901-090
Manufacturer	Emerson
Hardware type	Eddy Current System
System family	AMS EZ1000 8 mm System
Official source	Emerson data sheet, December 2024; EZ1081 and EZ1901 ordering tables

CONTROLLED ENGINEERING COPY

Keep the complete 10 m calibrated cable chain together and record the 30 mm case-length code before replacement. Verify the 0.5 mm initial air gap, target geometry and converter configuration before dynamic acceptance.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



EZ1081-03-00-010 + EZ1901-090

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the entire EZ1081-03-00-010 + EZ1901-090 configuration, not only the probe body.
2	Place the monitored machine and channel in the approved maintenance state.
3	Keep the 1 m sensor cable and 9 m extension as the documented 10 m chain.
4	Protect the probe tip, armored cable and connectors from impact or contamination.
5	Confirm the minimum target and shaft geometry from the official data sheet.

Matched Hardware

CONTROL ITEM	REQUIRED RECORD
Identity	EZ1081-03-00-010 + EZ1901-090
Physical interface	EZ1081 30 mm M10x1 armored sensor
Companion check	EZ1901 9 m armored extension cable
Configuration	Compatible AMS EZ1000 converter and scale setting
Functional proof	Static gap and dynamic loop proof test

RELEASE HOLD POINT

Do not disturb the installed device until the exact marking, connections, companion hardware and configured function are documented.

Wiring and Interface Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Identity	Record the full sensor-plus-extension code.
Cable chain	Confirm 1 m plus 9 m equals 10 m.
Probe	Verify M10x1 thread and 30 mm case.
Target	Check target and shaft geometry.
Connector	Inspect and secure both mating halves.
Converter	Select the correct sensor and scale factor.
Gap	Set near 0.5 mm within the linear region.
Proof	Test polarity, response and alarm action.

CONFIGURATION BOUNDARY

Keep the complete 10 m calibrated cable chain together and record the 30 mm case-length code before replacement. Verify the 0.5 mm initial air gap, target geometry and converter configuration before dynamic acceptance.

Expected Technical Values

PARAMETER	VALUE
Complete configuration	EZ1081-03-00-010 + EZ1901-090
Sensor thread	M10x1
Sensor case length	30 mm
Integral cable	1 m, armored

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	The exact probe and extension pair are recorded.
Mechanical	Thread, target and clearance are correct.
Electrical	Cable length and converter setup match.
Functional proof	Gap, polarity, response and alarm logic pass.

Technical Questions to Resolve

QUESTION	ENGINEERING ANSWER
What total cable length does Emerson EZ1081-03-00-010 + EZ1901-090 create?	The 1 m EZ1081 cable plus the 9 m EZ1901 extension gives the documented 10 m system length.
Which thread is used by Emerson EZ1081-03-00-010 + EZ1901-090?	The EZ1081 sensor code in this configuration uses an M10x1 mounting thread.
What case length is encoded in Emerson EZ1081-03-00-010 + EZ1901-090?	The sensor order code specifies a 30 mm case length.
What measuring range applies to Emerson EZ1081-03-00-010 + EZ1901-090?	The 8 mm EZ1000 sensor system has a 2 mm measuring range.

Source, Related Products and Release

MODEL	APTER POWER PAGE
Bently Nevada 21504-012-032-10-02	View Bently Nevada 21504-012-032-10-02
Bently Nevada 21504-12-28-10-02	View Bently Nevada 21504-12-28-10-02
Bently Nevada 21504-16-32-10-02	View Bently Nevada 21504-16-32-10-02
Bently Nevada 21505-00-40-10-02	View Bently Nevada 21505-00-40-10-02
Bently Nevada 21505-00-44-10-02	View Bently Nevada 21505-00-44-10-02
Bently Nevada 21505-00-59-10-02	View Bently Nevada 21505-00-59-10-02
Bently Nevada 21508-02-12-05-02	View Bently Nevada 21508-02-12-05-02
Bently Nevada 21505-000-012-05-02	View Bently Nevada 21505-000-012-05-02

MANUFACTURER SOURCE RECORD

AMS EZ1000 8 mm Sensor Data Sheet
Emerson data sheet, December 2024; EZ1081 and EZ1901 ordering tables

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	EZ1081-03-00-010 + EZ1901-090 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
APTER POWER SALES TEAM WHATSAPP / PHONE +86 180 3023 5313 EMAIL sales13@apterpower.com WEBSITE www.apterpower.com  EZ1081-03-00-010 + EZ1901-090	