

KL4201X1-BA1

DeltaV CHARM Baseplate

Emerson KL4201X1-BA1 is a DeltaV CHARM baseplate for Electronic Marshalling hardware. It distributes the documented CHARM bus and field-circuit power within the approved carrier assembly.

PRODUCT SNAPSHOT

BRAND
Emerson

FAMILY
DeltaV Electronic Marshalling

PART
KL4201X1-BA1

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

Emerson KL4201X1-BA1 provides baseplate power distribution and CHARM mounting within a DeltaV Electronic Marshalling assembly in a documented DeltaV Electronic Marshalling installation.

CHARM baseplate

6.3 V DC CHARM bus

24 V DC field circuit

Industrial shock, vibration and G3 environment ratings

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 IC670ALG330	 IC670ALG320	 IC670ALG310
 IC670ALG240	 IC670ALG230	 IC670MFP100

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximitor Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented carrier position, keyed interfaces, field wiring and approved DeltaV configuration. Commissioning restores that architecture and verifies the affected function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	CHARM baseplate
CHARM bus	6.3 V DC at 4 A
Field circuit	24 V DC at 10 A
Ambient temperature	-40 to +70 deg C
Shock	10 g half-sine for 11 ms
Vibration, 2-13.2 Hz	1 mm peak-to-peak

PARAMETER	VALUE
Vibration, 13.2-150 Hz	0.7 g
Relative humidity	5 to 95%, non-condensing
Airborne contaminants	ISA-S71.04 Class G3
Energized removal	Not permitted unless the area is known nonhazardous
Maintenance	No user serviceable parts; calibration not required
Hazardous-area marking	ATEX / IECEx Zone 2 component

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TECHNICAL NOTE

Install KL4201X1-BA1 only in the documented DeltaV Electronic Marshalling arrangement. Preserve identity, keying, wiring and configuration, then verify diagnostics and baseplate power distribution and CHARM mounting within a DeltaV Electronic Marshalling assembly under controlled conditions.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Electronic marshalling cabinet

Provides the baseplate for documented CHARM channel hardware.

CHARM bus distribution

Carries the approved 6.3 V DC bus across the baseplate.

Field-power distribution

Handles the documented 24 V DC field-circuit supply.

Baseplate replacement

Preserves carrier position, power feeds and channel assignments.

PRODUCT PRECAUTIONS

1

Verify the complete KL4201X1-BA1 identity and the documented DeltaV CHARM Baseplate execution

2

Place the connected process and DeltaV hardware in the approved maintenance state.

3

Isolate every documented power, signal and stored-energy source before disconnecting hardware.

4

Record the installed carrier position, keyed interfaces, terminals, conductors and active configuration.

5

Use ESD controls and protect keyed connectors, electronic contacts and field wiring during handling.

6

Restore only the exact documented power, wiring, grounding, shielding and DeltaV configuration.

7

Energize in a controlled sequence and review device, carrier, controller and process diagnostics.

8

Function-test baseplate power distribution and CHARM mounting within a DeltaV Electronic Marshalling

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ENGINEER FAQ

Q1

Where is Emerson KL4201X1-BA1 used?

KL4201X1-BA1 is the CHARM baseplate within a DeltaV Electronic Marshalling assembly.

Q2

What CHARM-bus rating applies to KL4201X1-BA1?

The documented CHARM bus rating is 6.3 V DC at 4 A.

Q3

What field-circuit rating applies to KL4201X1-BA1?

The field circuit is rated 24 V DC at 10 A.

Q4

Which ambient range is approved for KL4201X1-BA1?

The manufacturer instruction sheet specifies -40 to +70 deg C.

Q5

Can KL4201X1-BA1 be disconnected in a hazardous area while energized?

No. Energized removal or insertion is allowed only when the area is known to be nonhazardous.

Q6

How should vibration exposure be checked for KL4201X1-BA1?

Use the documented limits of 1 mm peak-to-peak at 2-13.2 Hz and 0.7 g at 13.2-150 Hz.

Q7

Is field calibration required for KL4201X1-BA1?

No. Emerson states that the baseplate has no user-serviceable parts and requires no calibration.

Q8

What must be verified after installing KL4201X1-BA1?

Confirm bus power, field power, baseplate seating, CHARM recognition, channel mapping and cabinet diagnostics.

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SOURCE

Emerson ATEX38 instruction sheet for KL4201X1-BA1 CHARM baseplate | Manufacturer evidence verified 29 September 2026

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