



Product Description

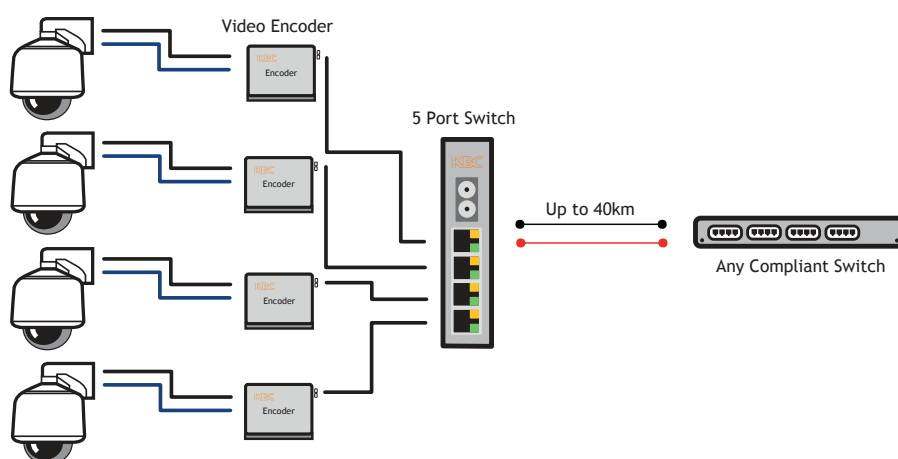
The KBC ESUL4-FL1 Ethernet series is an ultra low power, unmanaged industrial Ethernet switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to four 10/100 Mbps twisted pair copper ports and one multimode or singlemode 100Mbps fiber port. All ports are automatically configured and the plug-and-play design provides ease and speed of installation. The series is available in either DIN rail or wall-mount configurations.

Product Features

- Low power
- Broad, dual redundant power input
- Full & half duplex operation
- MDI/MDI-X
- IP40 protection class



Typical System Configuration



Specifications

Standards

IEEE Standard

IEEE 802.3 10BASE-T
IEEE 802.3u 100BASE-TX
& 100BASE-FX
IEEE 802.3x Full Duplex

Switch Performance

Switching Method
Transfer Rate
Backplane Switch Capacity
Mac Address Table

Store & forward
148,810 pps
1 Gbps
2k

Power

Power Input

18-72 Vdc
13-51 Vac
Dual Redundant
Input: 100-240 Vac
Output: +24V dc
<2.2W

Power Supply⁽¹⁾

Power Consumption

Mechanical

Casing
Dimensions (W x H x D)

IP40 protection
30mm x 115mm x 92mm
(1.18" x 4.52" x 3.6")
700g
Wall-mount or DIN rail

Weight
Installation

Environmental

Operating Temperature
Storage Temperature
Operating Humidity
Mean Time
Between Failure (MTBF)

-40° ~+74° C / -40° ~+165° F
-40° ~+74° C / -40° ~+165° F
5 to 95% non-condensing
>300,000 Hours

Connectors

10/100 Electrical
100BASE-FX
Power⁽²⁾

4 x RJ45
1 x Duplex SC
5-way screw block terminal

Approvals

IEC61000-4-2(ESD)

IEC61000-4-3(RS)
IEC61000-4-4(EFT)

IEC61000-4-5(Surge)

IEC61000-4-6(CS)

IEC61000-4-16
(Common Mode Conduct)

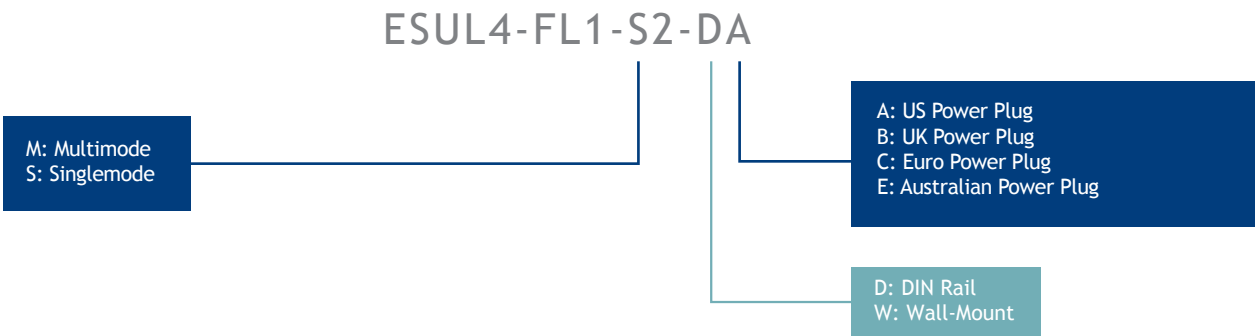
FCC Part 15, CISPR (EN55022)
IEC61000-6-2 (Industrial Standards)
EN50121-4, EN50155 (Railway Applications)

±8kV Contact discharge,
±15kV air discharge
10V/m, (80-2000 MHz)
Power line ±4kV,
Data line ±2kV
N-N: 2kV N-G:4kV (1.2 / 50µs, 80/20µs)
Data line ±2kV
3V(10kHz - 150kHz); 10V(150kHz - 80MHz)
10V (150 kHz-80 MHz)
30V cont. 300V, 1s

Class A

IEC68-2-27 (Shock) duration of half sine pulse 11ms, peak acceleration 300m/s²
IEC68-2-6 (Free fall), mass 20kg:0.25m
IEC88-2-6 (Vibration) vibration amplitude: 7mm, acceleration :20-15m/s²,
frequency range : 2-9Hz, 9-200Hz, 200-500Hz

Part Number Configurator



1. Please select the power plug from US Standard, Euro 2 Circular, UK 3 Pin square or Australian when placing order.
2. Power lines are crimped and fitted to screw block connector in factory.

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