



Network solutions Safety Remote I/O UE4457

UE4457-03DC9F0



Model Name > [UE4457-03DC9F0](#)
Part No. > [1028307](#)

At a glance

- Functions as a safety controller or remote I/O
- Six dual-channel or 12 single-channel safety inputs on the device
- Optimized system reaction time in stand-alone or networked operation
- Remote module up to enclosure rating IP 67
- Wide selection of certified function blocks

Your benefits

- Modular expandability and remote I/O reduce costs and provide maximum network flexibility
- Stand-alone mode - without a safety controller - provides increased user flexibility
- Cost-efficient safety solutions by using a safety-enable-standard PLC that controls the safety outputs of the UE4457 – no additional safety controller is required
- Reduced implementation costs using safety automation devices without a control cabinet
- Saves space and simplifies installation – smaller safety distances between protective devices and hazardous point via the Fast-Shut-Off functionality
- Easy integration and advanced diagnostics of intelligent safety sensors via SICK Safety Data Link (SDL)



Applications

Safety command devices:	✓
Electro-mechanical safety switches:	✓
Non-contact safety switches:	✓
Opto-electronic protective devices:	✓
Two-hand control systems:	✓
Operating mode selector switch:	✓
Muting sensors:	✓
Muting lamp:	✓

Functions

Safe device communication via EFI/SDL:	✓
External device monitoring:	✓
Reset/restart:	Manual/automatic/configurable
Logical functions:	AND, NOT, OR, XNOR, XOR
On-delay:	✓
Off-delay:	✓

Door monitoring:	✓
Signal routing:	✓
Bidirectional communication:	✓

Technical data

Enclosure rating:	IP 67
Ambient operating temperature from ... to:	-10 °C ... 55 °C
Protection class:	III (EN 61140)
Safety integrity level:	SIL3 (IEC 61508)
Category:	Category 4 (EN ISO 13849)
Performance level:	PL e (EN ISO 13849)
PFHd:	5.4 * 1E-10
TM (mission time):	20 a
Maximum power consumption:	≤ 4 A ... , per connection ¹⁾
Connection type supply voltage:	Mini 7/8" × 4
Number of safety inputs:	6 dual-channel or 12 single-channel
Input voltage HIGH field signal inputs:	11 V DC, 30 V DC
Input delay field signal inputs:	Configurable 0 ... 635 ms
Number of test/signal outputs (with current monitoring):	12
Type of output test/signal outputs:	PNP semiconductor
Output current test/signal outputs:	700 mA
Number of safe outputs:	2 dual-channel
Type of output safety capable outputs:	Bipolar type
Maximum switching current safety capable outputs:	2 A
Number of SDL connections:	2
Maximum number of safety target connections:	6
DeviceNet communication rate:	125 kbit/s, 250 kbit/s, 500 kbit/s, Autobaud detection
Connection type DeviceNet:	Mini 7/8" × 5

¹⁾ Class 2

Electrical data

Fieldbus:	DeviceNet Safety
Supply voltage:	19.2 V DC, 28.8 V DC

Ambient data

Weight:	650 g
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Diagram illustrating the DeviceNet plug, mini, 7/8" x 5 connector. The diagram shows the following components and connections:

- DeviceNet (plug, mini, 7/8" x 5)
- SDL 1 (socket, M23 x 12)
- Connector 1: socket, M12 x 5 (safety capable input + muting lamp)
- Connector 3: socket, M12 x 5 (safety capable input)
- Connector 5: socket, M12 x 5 (safety capable input)
- Connector 7: socket, M12 x 5 (safety capable output - bipolar)
- Node address (2 rotary switches), serial port (socket, M6 x 4)
- Aux. power in (plug, mini, 7/8" x 4)
- Aux. power out (socket, mini, 7/8" x 4)
- Connector 2: socket, M12 x 5 (safety capable input)
- Connector 4: socket, M12 x 5 (safety capable input)
- Connector 6: socket, M12 x 5 (safety capable input)
- Connector 8: socket, M12 x 5 (safety capable output - bipolar)
- SDL 2 (socket, M23 x 12)
- Functional earth connection
- DeviceNet out (socket, mini, 7/8" x 5)

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