

FC-DCOM-232/485

FC-DCOM-232/485 Communication Module

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PRODUCT SNAPSHOT

BRAND
Honeywell

FAMILY
Honeywell Safety Manager

PART
FC-DCOM-232/485

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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PRODUCT OVERVIEW

Honeywell FC-DCOM-232/485 provides serial communication between Safety Manager and approved external devices in a documented Honeywell Safety Manager installation.

 RS-232 interface up to 250 kbaud

 RS-485/422 interface up to 2 Mbaud

 Multiple documented communication modes

 Control-Processor-supplied 5 V DC power

RELATED APTER POWER PAGES		
 Siemens 6SL3351-1AE37-5BA1	 Siemens 6SL3350-6TK00-0BA0	 Siemens 6RA8075-6DS22-0AA0
 Siemens 6SE7041-8GK85-0HA0	 Siemens 6SE7041-8EK85-0HA0	 Siemens 6SE7041-8EK85-1HA0
 Siemens 6SL3200-0SP01-0AA0	 Siemens 6SE7041-8HK85-1HA0	 Siemens A5E36717811

SYSTEM COMPONENTS

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

ENGINEERING CONTEXT

The component remains matched to its documented host position, field connections and approved engineering configuration. Commissioning restores that architecture and verifies the intended function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product type	Safety Manager communication module
Model	FC-DCOM-232/485
System	Honeywell Safety Manager
Supply	5 V DC +/-5% from the Control Processor
Maximum current	500 mA
RS-232 standard	EIA/TIA-232
RS-232 data rate	0-250 kbaud
RS-485/422 standard	EIA/TIA-485-A

PARAMETER	VALUE
RS-485/422 data rate	0-2 Mbaud
Communication modes	Transparent, FMO, FM1 and Manchester
Mounting	DIN rail TS32 or TS35 x 7.5
Approvals	CE, TUV, UL and FM as documented
Related type	FS-DCOM-232/485
Host power source	Safety Manager Control Processor
Commissioning scope	Port mode, rate, termination, grounding and end-to-end

RELATED PRODUCT PAGES

1 Siemens 6SL3351-1AE37-5BA1

2 Siemens 6SL3350-6TK00-0BA0

3 Siemens 6RA8075-6DS22-0AA0

4 Siemens 6SE7041-8GK85-0HA0

5 Siemens 6SE7041-8EK85-0HA0

6 Siemens 6SE7041-8EK85-1HA0

7 Siemens 6SL3200-0SP01-0AA0

8 Siemens 6SE7041-8HK85-1HA0

9 Siemens A5E36717811

TECHNICAL NOTE

Install FC-DCOM-232/485 only in the documented Honeywell Safety Manager position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and serial communication between Safety Manager and approved external devices before release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Safety serial device integration

Connects approved serial devices to a Safety Manager communication path.

RS-232 maintenance link

Uses the documented EIA/TIA-232 interface and configured data rate.

RS-485/422 multidrop link

Supports the approved differential serial topology and termination.

Communication-module replacement

Restores port mode, rate, wiring and end-to-end message verification.

PRODUCT PRECAUTIONS

1

Confirm FC-DCOM-232/485 on the module and engineering record.

2

Place the Safety Manager application and serial peer in the approved maintenance state.

3

Record interface type, communication mode, data rate, pinout and termination.

4

Isolate the Control Processor and field interface before disconnection.

5

Verify the 5 V DC host supply and documented current limit.

6

Restore RS-232 or RS-485/422 grounding, shielding and termination.

7

Review Safety Manager communication and module diagnostics.

8

Exercise the serial path end to end before release.

RELATED APTER POWER PAGES

1

Siemens 6SL3351-1AE37-5BA1

2

Siemens 6SL3350-6TK00-0BA0

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Siemens 6RA8075-6DS22-0AA0

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Siemens 6SE7041-8GK85-0HA0

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ENGINEER FAQ

Q1 Which serial standards are supported by FC-DCOM-232/485?

It supports EIA/TIA-232 and EIA/TIA-485-A RS-485/422 communication.

Q2 What RS-232 data-rate range applies to FC-DCOM-232/485?

The documented RS-232 range is 0-250 kbaud.

Q3 What RS-485/422 data-rate range applies to FC-DCOM-232/485?

The documented RS-485/422 range is 0-2 Mbaud.

Q4 How is FC-DCOM-232/485 powered?

The Safety Manager Control Processor supplies 5 V DC within the documented tolerance.

Q5 What maximum current is documented for FC-DCOM-232/485?

The documented maximum current is 500 mA.

Q6 Which communication modes can FC-DCOM-232/485 use?

Transparent, FMO, FM1 and Manchester modes are documented.

Q7 Which approvals are listed for FC-DCOM-232/485?

The hardware reference lists CE, TUV, UL and FM approvals.

Q8 What proves end-to-end acceptance of FC-DCOM-232/485?

Verify port mode, rate, wiring, termination, diagnostics and communication with the peer device.

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SOURCE Honeywell Safety Manager Hardware Reference EP-SM.MAN.6284 R162 | Official Honeywell manufacturer publication

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