

SIMATIC ET 200X EM141

Product Data Sheet

6ES7141-1BF40-0XB0

Eight-channel digital input expansion module

DIGITAL INPUT CHANNELS	RATED INPUT VOLTAGE	INPUT VOLTAGE FOR LOGIC 0	INPUT VOLTAGE FOR LOGIC 1
8	24 V DC	-3 to +5 V	13 to 30 V

Siemens 6ES7141-1BF40-0XB0 is an EM141 digital input expansion module for SIMATIC ET 200X distributed I/O. Its eight inputs connect compatible 24 V DC sensors to a configured industrial automation station.

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VERIFIED TECHNICAL DATA

Digital input channels	8
Rated input voltage	24 V DC
Input voltage for logic 0	-3 to +5 V
Input voltage for logic 1	13 to 30 V
Typical input current for logic 1	10 mA
Configurable input delay	0.5 / 3 / 15 / 20 ms
Maximum unshielded cable length	30 m
Maximum two-wire sensor quiescent current	1.5 mA
Maximum backplane current at 5 V	30 mA
Sensor supply outputs	8

ADDITIONAL PRODUCT DATA

Maximum sensor current at 40 deg C	0.5 A per output; 1 A total
Maximum sensor current at 55 deg C	0.4 A per output; 0.8 A total
Typical power loss	1.5 W
Digital input standard	IEC 61131 Type 2
Field connector pins	5, M12

DOCUMENTED USE SETTINGS

Industrial Manufacturing and Production Processing: Manufacturing Process Automation.

Food Production and Beverage Processing: Food Processing and Packaging.

Chemical Production and Petrochemical Processing: Industrial Chemical Production.

SYSTEM COMPATIBILITY

6ES7141-1BF40-0XB0 belongs to the SIMATIC ET 200X EM141 family and provides the documented eight-channel digital input expansion module function. Its digital input channels is 8; match this characteristic to the connected equipment and the project configuration.

PRODUCT EVIDENCE

Siemens SIMATIC ET 200X EM141 manufacturer documentation; applicable pages 1, 2