SIMATIC ET 200PA SMART

Product Data Sheet

6ES7650-8DK80-1AA0

Coated 32-channel Digital Input Module

DIGITAL INPUT CHANNELS	ISOLATED CHANNEL GROUP	RATED INPUT VOLTAGE	SIGNAL-ONE VOLTAGE
32	**16 inputs**	**24 V DC**	**13 to 30 V**

Siemens 6ES7650-8DK80-1AA0 is the conformally coated DI 32 x DC 24 V module for SIMATIC ET 200PA SMART. It provides 32 digital inputs isolated in groups of 16 and accepts switches and the documented two-, three- or four-wire proximity sensors. Its input characteristic follows IEC 61131 Type 1.

01 TECHNICAL DATA

Digital input channels	32
Isolated channel group	16 inputs
Rated input voltage	24 V DC
Signal-one voltage	13 to 30 V
Signal-zero voltage	-30 to +5 V
Typical input current	7 mA
Typical input delay	3 ms, rising and falling
Input characteristic	IEC 61131 Type 1
Maximum backplane current	50 mA
Typical power loss	6.5 W

Siemens ET 200PA SMART Operating Instructions, A5E34192013-AC, May 2020; coated DI32 section.

02 ADDITIONAL PRODUCT DATA

Maximum shielded cable	1000 m
Maximum unshielded cable	600 m
Front connector contacts	40
Maximum sensor quiescent current	1.5 mA for two-wire sensors
Isolation test	500 V AC or 707 V DC

03 PRODUCT FUNCTION

The module uses a 40-pin front connector, with typical input current of 7 mA and typical 3 ms transition delay. It provides channel-status LEDs and a group-error indicator, but no configurable diagnostic functions or diagnostic interrupts. ET 200PA SMART modules require their designated platform and are not ready for operation when installed centrally in S7-300 or in an ET 200M station.

04 SYSTEM COMPATIBILITY

Use a 24 V DC field circuit consistent with the input thresholds: 13 to 30 V for signal one and -30 to +5 V for signal zero. The 40-pin front connector carries the channel and common connections shown in the wiring diagram. Keep two-wire sensor quiescent current within 1.5 mA and apply the stated shielded and unshielded cable limits.

05 REFERENCE

Siemens ET 200PA SMART Operating Instructions, A5E34192013-AC, May 2020; coated DI32 section.

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