SIMATIC ET 200ECO PN

Product Data Sheet

6ES7141-6BH00-0AB0

Sixteen-Channel Digital Input Block

DIGITAL INPUTS	INPUT CONNECTORS	SUPPLY RANGE	TYPICAL CURRENT CONSUMPTION
16; 24 V DC type 3	**8 M12; double assignment**	**20.4 to 28.8 V DC**	**100 mA**

Siemens 6ES7141-6BH00-0AB0 is an ET 200eco PN distributed digital input block with sixteen 24 V DC inputs. Eight M12 sockets use double channel assignment, and the two-port Ethernet switch connects the block to the PROFINET IO arrangement. Its rugged enclosure is specified to IP65, IP66 and IP67 when installed with the appropriate connector sealing.

01 TECHNICAL DATA

Digital inputs	16; 24 V DC type 3
Input connectors	8 M12; double assignment
Supply range	20.4 to 28.8 V DC
Typical current consumption	100 mA
Power loss	6.5 W
Sensor supplies	8; 100 mA each
Signal-0 voltage	-3 to +5 V
Signal-1 voltage	11 to 30 V
Typical signal-1 current	7 mA
Maximum signal-0 current	1.5 mA

Siemens 6ES7141-6BH00-0AB0 official technical data; applicable specification pages.

02 ADDITIONAL PRODUCT DATA

Typical input delay	3 ms for both transitions
Maximum unshielded input cable	30 m
Ethernet transfer rate	100 Mbit/s
Ethernet ports	2; integrated switch
Enclosure protection	IP65; IP66; IP67

03 PRODUCT FUNCTION

The supply range is 20.4 to 28.8 V DC. Eight sensor supplies provide up to 100 mA each with short-circuit protection. The type 3 inputs recognize a low state from -3 to +5 V and a high state from 11 to 30 V, with a typical 3 ms delay for both transitions. The manufacturer permits up to 30 m of unshielded input cable and specifies 100 Mbit/s Ethernet transfer.

04 SYSTEM COMPATIBILITY

Map both channels at each M12 input socket before wiring, because the eight sockets serve sixteen inputs. Check sensor demand against each 100 mA supply limit and the complete power-feed arrangement. Match the sensor signal levels to the type 3 input thresholds and keep input cable within 30 m.

05 REFERENCE

Siemens 6ES7141-6BH00-0AB0 official technical data; applicable specification pages.

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