



Safety laser scanners
S3000 PROFINET IO Professional, I/O module

S30A-xxxxDP

Model Name > S30A-xxxxDP
Part No. > 2047169

Applications

Hazardous area protection (vertical):	✓
Access protection (vertical):	✓
Hazardous area protection (horizontal):	✓

Functions

Number of simultaneously monitored protective fields:	2
Incremental encoder inputs:	-
External device monitoring (EDM):	-
Integrated configuration memory:	✓
Expanded measured data output (CMS, RS-422):	-
Measured data output (RS-422):	-
Safe device communication via EFI/SDL:	-

Technical data

Enclosure rating:	IP 65 (EN 60529)
Protection class:	III (EN 50178)
Type:	Type 3 (IEC/EN 61496-3)
Safety integrity level:	SIL2 (IEC 61508), SILCL2 (EN 62061)
Category:	Category 3 (EN ISO 13849)
Performance level:	PL d (EN ISO 13849)
PFHd:	8.0 * 1E-08 (EN ISO 13849)
TM (mission time):	20 a (EN ISO 13849)
Ambient operating temperature:	-10 °C ... 50 °C
Response time:	60 ms ⁱ⁾
Electrical connection:	Plug-in supply connector with screw type terminal and cable gland for cable diameter 5 mm ... 10 mm
Supply voltage:	16.8 V DC, 24 V DC, 28.8 V DC
Configuration and diagnostics interface:	RS-232
Device properties:	PROFINET IO module with 2-port real-time switch according to PROFINET specification V2.2 PROFIsafe profile with 6-octet input and 6-octet output according to IEC 61784-3-3 V2.4 Cycle time 4, 8, 16, 32 ms, etc. GSDML according to GSDML specification V2.25

Switch properties:	<ul style="list-style-type: none"> Filtering Data Base according to IEEE 802.1D 6 prioritization levels for IEEE 802.1Q - Network prioritization 64 KB SRAM memory for caching telegrams, managed in 768-byte segments Resource prioritization for network control and RTC2/3 frames Telegram extension based on "Cut-through" Port status (Disabled, Blocking, Forwarding) Support for non-real-time and real-time data transfer
Port properties:	<ul style="list-style-type: none"> Auto-negotiation Auto-crossover (MDIX) Auto-polarity 100Base-TX
Conformance:	Conformance Class B
Topology support:	SNMP, MIB-2, LLDP nach IEEE 802.1AB MRP client support
Diagnostics:	<ul style="list-style-type: none"> Application-related manufacturer-specific channel diagnostics and channel diagnostics for the PROFIsafe profile, individually switchable Report system errors Cable diagnostics Neighborhood alerts Support for port statistics I&M support from I&M0 to I&M4
Interfaces for configuration and diagnostics using CDS:	TCP port 9000 and UDP port 30718 RS-232
Functions that are not supported:	<ul style="list-style-type: none"> Multicast communication Supervisor AR MAC-pause mechanism in full duplex Back-pressure in half duplex Static learning Broadcast Storm Control

1) Depending on basic response time and multiple sampling

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