

## Data sheet

6GK1901-0DB30-6AA0

### Product type designation

Product description

### IE FC M12 Plug PRO (PROFINET)

M12-Connector with high protection, 8-pole, X-coded  
Industrial Ethernet FastConnect M12 plug PRO 4x 2 M12 plug-in  
connector with Rugged metal enclosure and FC connection method,  
with axial cable outlet (X-coded) 1 pack=1 unit for SCALANCE W and  
SCALANCE X



### Suitability for use

For connecting electrical cables to SCALANCE W (M12 gigabit interface) for fast assembly with the FastConnect system

### Transfer rate

Transfer rate / for Industrial Ethernet

10 Mbit/s, 100 Mbit/s, 1000 Mbit/s, 10000 Mbit/s

### Interfaces

Number of electrical connections

- for Industrial Ethernet FC TP cables
- for network components or terminal equipment

8  
1

Type of electrical connection

- for Industrial Ethernet FC TP cables
- for network components or terminal equipment

integrated cut-and-clamp contacts for 8-wire TP FC installation  
cable AWG24  
M12 connector (X-coded)

Type of electrical connection / FastConnect

Yes

### Mechanical data

Material / of the enclosure

metal

Locking mechanism design

Screw

Design, dimensions and weight	
Type of cable outlet	180° cable outlet
Width	16.8 mm
Height	16.8 mm
Depth	52 mm
Net weight	40 g
Connectable cable cross-section	6.5 ... 8 mm

Ambient conditions	
Ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
Chemical resistance	
• to water	resistant
Protection class IP	IP65/67

Product features, product functions, product components / general	
Product feature	
• PoE capability	Yes
• PoE+capability	Yes
• silicon-free	Yes
Product component	
• strain relief	Yes

Standards, specifications, approvals	
Certificate of suitability	
• RoHS conformity	Yes
• UL approval	Yes
• cULus approval	Yes
• Railway application in accordance with EN 50155	Yes
• Fire protection in accordance with EN 45545-2	Yes
Standard for structured cabling	Cat6A

Further information / Internet-Links	
Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAX Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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