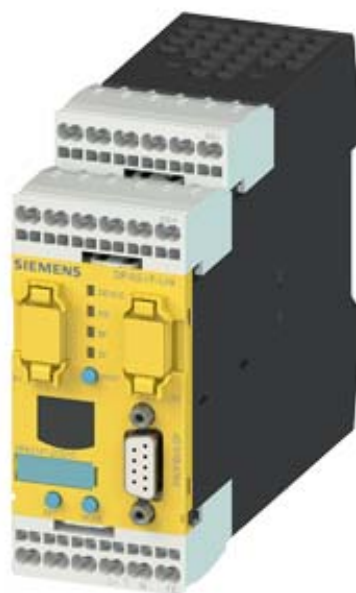




DP/AS-I F-LINK,  
GATEWAY PROFIBUS DP/AS-I FOR SAFETY-RELATED  
DATA TRANSMISSION FROM ASISAFE TO PROFIBUS DP  
- PROFISAFE. MASTER PROFILE M3/ M4 ACC. TO  
EXTENDED AS-I SPEC.3.0. DEGREE OF PROTECTION  
IP20. SPRING-LOADED TERMINALS.

### General technical data:

|                                                                                                               |    |                                                          |
|---------------------------------------------------------------------------------------------------------------|----|----------------------------------------------------------|
| <b>Product-type designation</b>                                                                               |    | DP/AS-i F-Link                                           |
| <b>Protection class IP</b>                                                                                    |    | IP20                                                     |
| <b>Design of the electrical connection / of the AS-Interface</b>                                              |    | Spring-type terminal                                     |
| <b>Type of voltage supply</b>                                                                                 |    | via 24 V DC                                              |
| <b>Operating condition / separate power supply 24 V</b>                                                       |    | Yes                                                      |
| <b>Current consumed</b><br>• from shaped cables of AS-Interface<br>• at 24 V / with AS-i Power24V / maximum   | mA | 100                                                      |
| <b>Resistive loss</b>                                                                                         | W  | 3                                                        |
| <b>Insulation voltage / rated value</b>                                                                       | V  | 500                                                      |
| <b>Product function / adapted for AS-i Power24V</b>                                                           |    | No                                                       |
| <b>Product feature / redundancy capability</b>                                                                |    | No                                                       |
| <b>Product function / web-based management</b>                                                                |    | No                                                       |
| <b>Product function / diagnosis via E-mail</b>                                                                |    | No                                                       |
| <b>Product function / galvanic isolation</b><br>• as status display by LED<br>• as status display via display |    | Yes<br>DEVICE, ASi, BF, SF<br>Dot-matrix display, 2-line |
| <b>Type of projection / of the AS-interface</b>                                                               |    | Set pushbutton on device, STEP7, GSD, command interface  |

| Communication:                                    |  |                                                    |
|---------------------------------------------------|--|----------------------------------------------------|
| Version / of the AS-interface specification       |  | V 3.0                                              |
| AS-interface masterprofile / will be supported    |  | M4 (in acc. with AS-interface specification V 3.0) |
| Type of data transmission                         |  | PROFIBUS                                           |
| Number of interfaces                              |  |                                                    |
| • as AS-interface                                 |  | 1                                                  |
| • according to RS 485                             |  | 1                                                  |
| • according to Industrial Ethernet                |  | 0                                                  |
| • according to PROFINET                           |  | 0                                                  |
| • according to wireless                           |  | 0                                                  |
| • according to USB                                |  | 0                                                  |
| • others                                          |  | 2                                                  |
| Product component / optical interface             |  | No                                                 |
| Protocol / will be supported                      |  |                                                    |
| • ASIsafe(Safety at work) protocol                |  | Yes                                                |
| • PROFIsafe protocol                              |  | Yes                                                |
| • PROFIBUS protocol                               |  | Yes                                                |
| • PROFINET IO protocol                            |  | No                                                 |
| • PROFINET CBA protocol                           |  | No                                                 |
| • TCP/IP                                          |  | No                                                 |
| • SNMP                                            |  | No                                                 |
| Standard for wireless communication / IEEE 802.11 |  | No                                                 |

| Ein- und Ausgänge:                                 |    |                                                                   |
|----------------------------------------------------|----|-------------------------------------------------------------------|
| Number of inputs / for AS Interface / maximum      |    | 496                                                               |
| Number of outputs / for AS Interface / maximum     |    | 496                                                               |
| Number of AS-i slaves / per AS-Interface / maximum |    | 62                                                                |
| Bus cycle time / of the AS-interface               |    |                                                                   |
| • at 31 slaves                                     | ms | 5                                                                 |
| • at 62 slaves                                     | ms | 10                                                                |
| Access to digital I/O data                         |    | via process diagram/peripheral addresses and data record transfer |
| Access to analog I/O data                          |    | via process diagram/peripheral addresses and data record transfer |

| Mechanical design: |    |                                                                                                      |
|--------------------|----|------------------------------------------------------------------------------------------------------|
| Width              | mm | 45                                                                                                   |
| Height             | mm | 113                                                                                                  |
| Depth              | mm | 124                                                                                                  |
| Type of mounting   |    | snap-on fastening on 35 mm standard mounting rail or screw fastening using an additional push-in lug |

|                      |  |      |
|----------------------|--|------|
| <b>Module format</b> |  | IP20 |
|----------------------|--|------|

#### Ambient conditions:

|                                                                     |    |             |
|---------------------------------------------------------------------|----|-------------|
| <b>Ambient temperature</b>                                          |    |             |
| • if installed on horizontal mounting rail / during operation       | °C | 0 ... 50    |
| • during transport                                                  | °C | -40 ... +85 |
| • during storage                                                    | °C | -40 ... +85 |
| <b>Relative humidity / at 25 °C / during operating / maximum</b>    | %  | 95          |
| <b>Installation altitude / at a height over sea level / maximum</b> | m  | 2,000       |

#### Safety:

|                                                                                            |  |          |
|--------------------------------------------------------------------------------------------|--|----------|
| <b>Acceptability for application / safety-related function</b>                             |  | Yes      |
| <b>Category / according to EN 954-1</b>                                                    |  | 4        |
| <b>safety Integrated Level / according to IEC 61508</b>                                    |  | SIL3     |
| <b>SIL claim limit (for a subsystem) / according to EN 62061</b>                           |  | 3        |
| <b>Performance level (PL) / according to ISO 13849-1</b>                                   |  | e        |
| <b>Request class according to DIN V 19250</b>                                              |  | AK7, AK8 |
| <b>Explosion protection labeling / for intrinsic safety of related operating resources</b> |  |          |
| • EEX ia                                                                                   |  | No       |
| • EEX ib                                                                                   |  | No       |
| <b>Explosion protection category for gas</b>                                               |  | none     |
| <b>Explosion protection category for dust</b>                                              |  | none     |

#### Certificates/approvals:

| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                       | Functional Safety / Safety of Machinery | Declaration of Conformity |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------|
|  CSA  GOST  UL  VDE  EG-Konf. |                                         |                           |

other

[Confirmation](#)



Profibus

[Environmental Confirmations](#)

#### Further information:

**Information- and Downloadcenter (Catalogs, Brochures,...)**

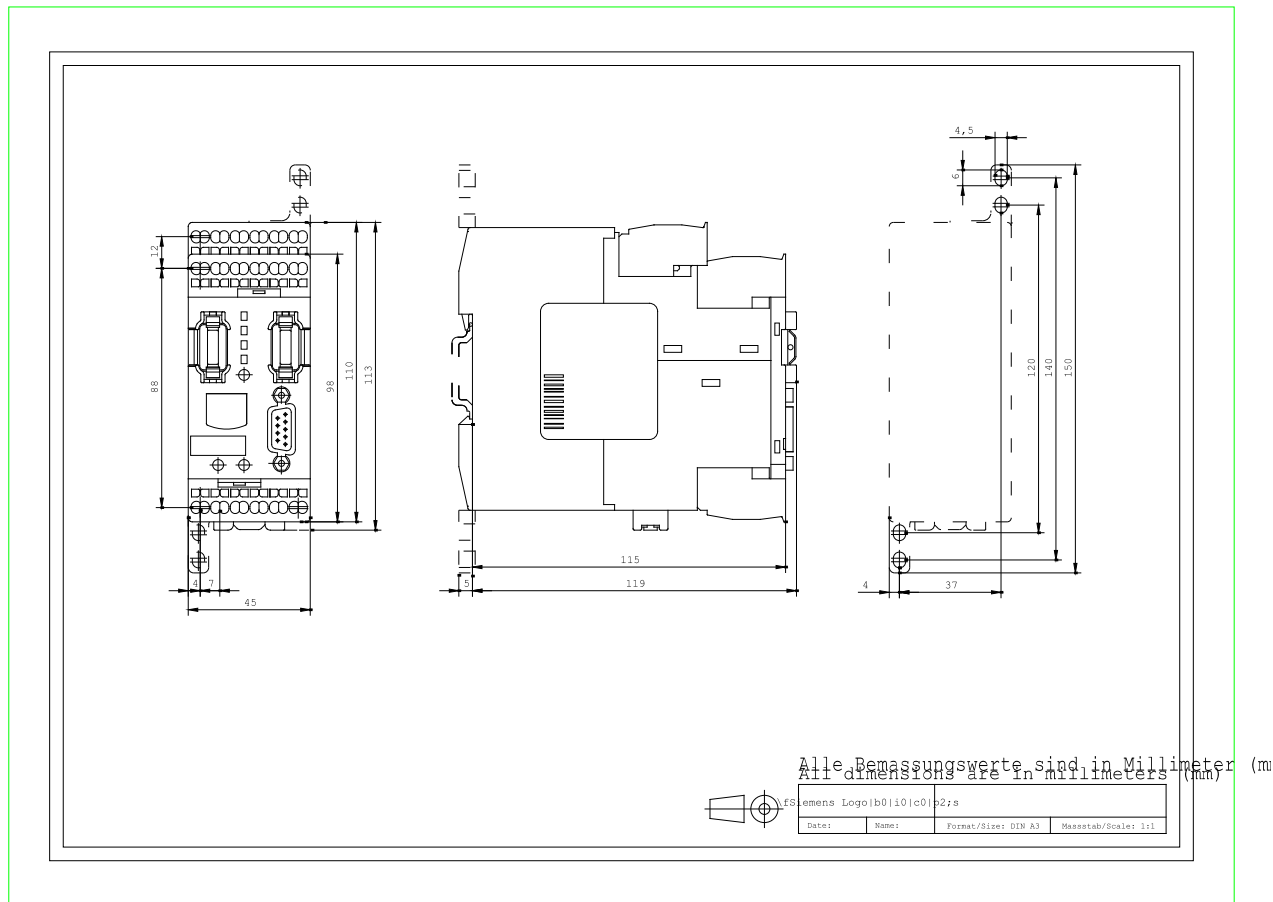
<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://www.siemens.com/industrial-controls/mall>

**Cax online generator:**

<http://www.siemens.com/cax>



last change:

Jul 17, 2012