

## IE-SW-BL05T-4TX-1SCS

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

### Product image



- Variations with 5 or 8 ports
- Variations for Gigabit Ethernet
- Sturdy metal housing
- Compact design
- Two redundant power inputs 12/24/48 V DC
- Variations with copper and fibre-optic interface (multimode and singlemode)
- Extensive approvals: CE, FCC, cULus, Class I Div. 2 / ATEX Zone 2, DNV-GL

### General ordering data

Version	Network switch, unmanaged, Fast Ethernet, Number of ports: 4 x RJ45, 1 * SC Single-mode, IP30, -40 °C...75 °C
Order No.	<a href="#">1286530000</a>
Type	IE-SW-BL05T-4TX-1SCS
GTIN (EAN)	4050118077230
Qty.	1 pc(s).

Creation date April 5, 2023 5:57:22 AM CEST

Catalogue status 31.03.2023 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

Depth	70 mm	Depth (inches)	2.756 inch
Height	115 mm	Height (inches)	4.528 inch
Width	30 mm	Width (inches)	1.181 inch
Net weight	175 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...75 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	75 °C
Humidity	5 to 95 % (non-condensing)		

## EMC conformity and approvals

EMC standards	EN 55032, EN 55035, FCC Part 15 Subpart B Class A, IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV, IEC 61000-4-3 RS: 80 MHz - 6 GHz: 10 V/m, IEC 61000-4-4 EFT: Power: 2 kV; Signal: 2 kV, IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV, IEC 61000-4-6 CS: 10 V, IEC 61000-4-8 PFMF: 100A/m	Explosive risk zone	UL/cUL, Class I, Division 2, Groups A, B, C and D, ATEX Zone 2 Ex nA IIC T4 Gc
Free fall	According to IEC 60068-2-32	Safety standard	UL508
Ship use	DNV	Shock	according to IEC 60068-2-27
Vibration	according to IEC 60068-2-6		

## Environmental conditions

Humidity	5 to 95 % (non-condensing)	Operating temperature, max.	75 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

## Fibre optic transceiver characteristics

Transmission rate	100 Mbps		
Transceiver type	Singlemode		
Connector type	SC-Duplex		
Transmission distance, typ.	40 km		
Wavelength	typ.	1,310 nm	
	Wavelength	TX	
	min.	1,280 nm	
	max.	1,340 nm	
	Wavelength	RX	
	min.	1,100 nm	
Receive power	min.	-34 dBm	
	max.	-3 dBm	

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Transmission power	min.	-5 dBm
	max.	0 dBm
Link-budget	29 dB	
Note	When connecting a single-mode fiber transceiver over a short distance, we recommend using an attenuator to prevent the transceiver from being damaged by excessive optical power.	

### Guarantee

Time interval	5 years
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### Interfaces

Fibre-optic ports	100BaseFX ports (SC connector), Singlemode	Function DIP switch	1x for enabling/disabling the broadcast storm protection
LED indicator	PWR1, PWR2, 10/100M (TP-Port), 100M (fibre-optic port).	Number of ports	4 x RJ45, 1 * SC Single-mode
RJ45 ports	10/100BaseT(X), auto negotiation, Full-/half-duplex mode, Auto MDI/MDI-X port		

### MTBF

MTBF	According to Standard	Telcordia (Bellcore), GB
	Operating time (hours), min.	3,040,784 h

### Power supply

Connection type	1 removable 4-pin terminal block	
Current consumption	0.11 A at 24 V	
Overload current protection	1.1 A	
Reverse polarity protection	Available	
Voltage supply	12/24/48 V DC, 2 redundant inputs	
Voltage supply range	Voltage type	DC
	Voltage, min.	9.6 V
	Voltage, max.	60 V

### Switch characteristics

Bandwidth backplane	1 Gbps	MAC table size	1 K
Packet buffer size	512 Kbit		

### Technical data

Housing main material	Aluminium	Protection degree	IP30
Speed	Fast Ethernet	Switch	unmanaged
Type of mounting	DIN rail, Panel (with optional mounting kit)		

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## Technical data

## Technology

Data switching	Store and Forward	Flow control	IEEE 802.3x flow control, Back pressure flow control
Standard	IEEE 802.3 for 10BaseT, IEEE 802.3u for 100BaseT(X) and 100BaseFX, IEEE 802.3x for flow control		

## Classifications

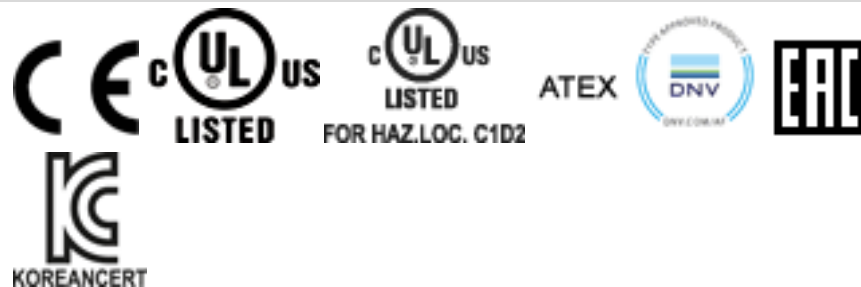
ETIM 6.0	EC000734	ETIM 7.0	EC000734
ETIM 8.0	EC000734	ECLASS 9.0	19-17-01-06
ECLASS 9.1	19-17-01-06	ECLASS 10.0	19-17-04-02
ECLASS 11.0	19-17-04-02	ECLASS 12.0	19-17-04-02

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	9229992a-00b9-4096-8962-200a7f33e289

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197
Certificate no. (cULusEX)	E223527

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">ATEX certificate</a> <a href="#">KC certificate</a> <a href="#">EU Declaration of Conformity</a> <a href="#">UK Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD</a>
Product Change Notification	<a href="#">Product Change Notification IE-SW-BL05-series</a>
User Documentation	<a href="#">Hardware Installation Guide</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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## Accessories

### Ethernet

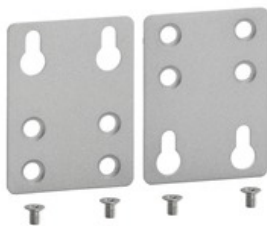


- Suitable for Cat. 5 (up to 100 MHz) and Cat. 6 (up to 250 MHz Class E)
- Suitable for PoE+ (according to IEEE 802.3at, IEEE 802.3bt Type 3 and 4)
- Protection of all wire pairs
- Connection via RJ45 sockets
- Metal housing

### General ordering data

Type	VDATA CAT6	Version
Order No.	<a href="#">1348590000</a>	Terminal rail fixing, Surge protection, Cat.6, 802.3 at Type 1, 802.3 at
GTIN (EAN)	4050118153002	Type 2, 802.3 bt Type 3, PoE
Qty.	1 pc(s).	

### Mounting kit for wall mounting



Mounting kit for alternative wall-mounting of DIN rail-based (top-hat type) Industrial Ethernet components.

**IE-WALLMOUNT-KIT-30MM** for use with:

- Industrial Ethernet Switches of the product range **IE-SW-BL05**

**IE-WALLMOUNT-KIT-46MM** for use with:

- Industrial Ethernet Switches of the product ranges **IE-SW- BL06/BL08/VL05/VL08/VL09/VL16/PL06/PL08/PL09/PL10/PL16/PL18**
- Industrial Ethernet media converters of the product range **IE-MC-VL**
- Industrial Ethernet switches of the product range **IE-WL-AP**

### General ordering data

Type	IE-WALLMOUNT-KIT-30MM
Order No.	<a href="#">1504450000</a>
GTIN (EAN)	4050118312300
Qty.	1 pc(s).

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**Accessories**

**Mounting kit for 19" rack assembly**

- For assembling DIN rail-based devices on 19" racks



**General ordering data**

Type	RM-KIT	Version
Order No.	<a href="#">1241440000</a>	Kit for 19"-rack mounting
GTIN (EAN)	4050118029154	
Qty.	1 pc(s).	

**SC-Duplex**

Mounting rail outlet, SC duplex junction design according to IEC 61754-4



**General ordering data**

Type	IE-TO-SCD-SM	Version
Order No.	<a href="#">8946980000</a>	Mounting rail outlet, fibre-optic, SC duplex, Singlemode, IP20
GTIN (EAN)	4032248734993	
Qty.	1 pc(s).	