

**IE-SW-BL05-4TX-1ST****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 (multi-mode 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 * ST Multi-mode, IP30, -10 °C...60 °C
Order No.	<a href="#">1240880000</a>
Type	IE-SW-BL05-4TX-1ST
GTIN (EAN)	4050118028829
Qty.	1 pc(s).

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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	-10 °C...60 °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.	60 °C
Operating temperature, min.	-10 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C		

## Fibre optic transceiver characteristics

Transmission rate	100 Mbps		
Transceiver type	Multimode		
Connector type	ST-Duplex		
Transmission distance, typ.	5 km		
Wavelength	typ.	1,300 nm	
	Wavelength	TX	
	min.	1,260 nm	
	max.	1,360 nm	
	Wavelength	RX	
	min.	1,100 nm	
	max.	1,600 nm	
Receive power	min.	-32 dBm	
	max.	-3 dBm	
Transmission power	min.	-20 dBm	
	max.	-10 dBm	

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Link-budget 12 dB

## Guarantee

Time interval 5 years

## Interfaces

Fibre-optic ports	100BaseFX ports (ST connector), Multimode	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 * ST Multi-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 Gbit/s	MAC table size	1 K
Packet buffer size	448 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)		

## 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		

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## Technical data

## Classifications

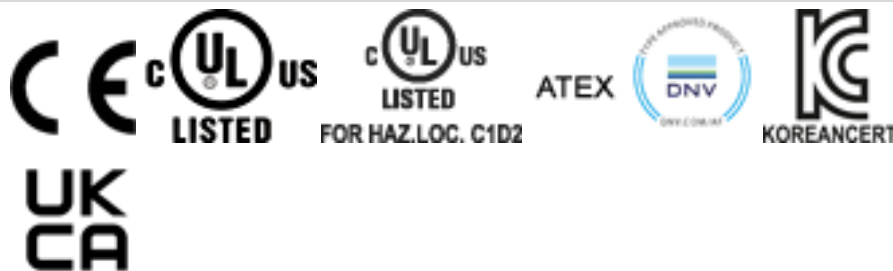
ETIM 6.0	EC000734	ETIM 7.0	EC000734
ETIM 8.0	EC000734	ETIM 9.0	EC000734
ECLASS 9.0	19-17-01-06	ECLASS 9.1	19-17-01-06
ECLASS 10.0	19-17-04-02	ECLASS 11.0	19-17-04-02
ECLASS 12.0	19-17-04-02	ECLASS 13.0	19-17-04-02

## 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>
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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[www.weidmueller.com](http://www.weidmueller.com)**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, PoE, 802.3 bt at Type 1,
GTIN (EAN)	4050118153002	802.3 bt at Type 2, 802.3 bt at Type 3, 802.3 bt at Type 4
Qty.	1 pc(s).	

**ST**

Mounting rail outlet, ST junction design according to IEC 61754-2

**General ordering data**

Type	IE-XM-ST/ST	Version
Order No.	<a href="#">8808340000</a>	Mounting rail outlet, fibre-optic, ST-ST coupler, IP20
GTIN (EAN)	4032248505920	
Qty.	1 pc(s).	

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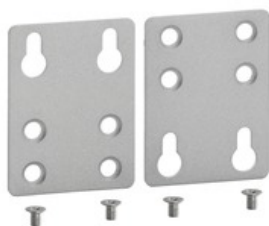
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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Mounting kit for 19" rack assembly**

- 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).	

**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	Version
Order No.	<a href="#">1504450000</a>	Kit for wall mounting
GTIN (EAN)	4050118312300	
Qty.	1 pc(s).	