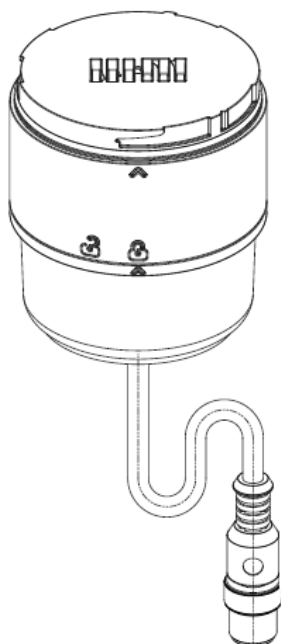


XVB7C31 IO-Link Base User Guide

Content

This document offers a technical guide on how to use the XVB7C31 IO-Link Base.



Part Number	XVB7C31 Type A
Connector	M12 5 pin
Operating voltage	24VDC
Number of layers	Support up to 5 layers (Light/Sound Module)
Maximum current/channel	500mA
Maximum output current	1600mA
Communication protocol	IO-Link version 1.1
Transmission rate	38400 bit/s (COM2)
Minimum cycle time	5ms
SIO mode	No
Block parameter	Yes
Data storage	Yes
Vendor ID	297 (0x0129)
Device ID	106 (0x00006a)

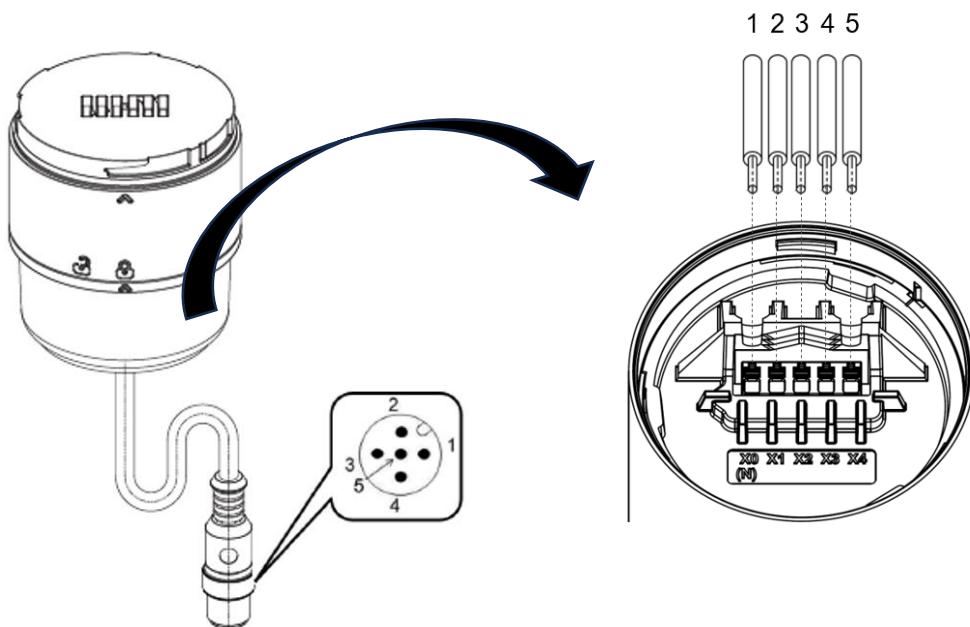
Please ensure communication settings are matching the table.

(IO-Link Device Definition) IODD File Import

Functions and information regarding the IO-Link Base is available in the IODD file which can be downloaded from the product page . Import the file to the IO-Link controller/master to recognize device.

Pin & Terminal Connection

The IO-Link Base comes with pre-wired M12 5 Pole cable (15cm) which is ready to be connected to an IO-Link master device. In the event re-wiring is required, please refer to the below:

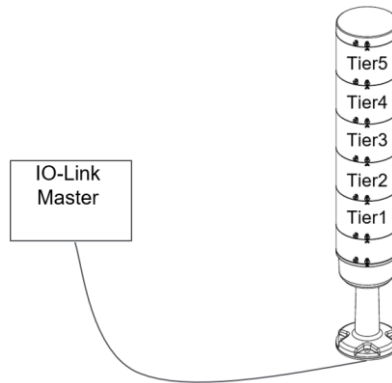


M12 pin	Wire Color	IO-Link Function	Terminal (On PCB)
1	Brown	L+	X0
2	White	2L+*	X1
3	Blue	L-	X2
4	Black	C/Q	X3
5	Gray	NC	X4

* Pin 2 can be used to provide additional power

Process Data

The light module (Tier1-Tier5) can emit any 4 light patterns (OFF/ON/BLINK/FLASH) via the IO-Link Master by sending the corresponding byte information:



Name	Byte	Data type	Light Pattern
Tier 1	0	IntergerT_8	OFF (0x00)/ON (0x01)/BLINK (0x03)/FLASH (0x05)
Tier 2	1	IntergerT_8	OFF (0x00)/ON (0x01)/BLINK (0x03)/FLASH (0x05)
Tier 3	2	IntergerT_8	OFF (0x00)/ON (0x01)/BLINK (0x03)/FLASH (0x05)
Tier 4	3	IntergerT_8	OFF (0x00)/ON (0x01)/BLINK (0x03)/FLASH (0x05)
Tier 5	4	IntergerT_8	OFF (0x00)/ON (0x01)/BLINK (0x03)/FLASH (0x05)

IO-Link Base Parameters

Name	Index	DataType	Value	Access
Vendor Name	16	StringT	Schneider Electric	ro
Vendor Text	17	StringT	Schneider Electric	ro
Product Name	18	StringT	Harmony Tower Light IO-Link Base	ro
Product ID	19	StringT	XVB7C31	ro
Product Text	20	StringT	IO-Link Base for Signaltower	ro
Serial Number	21	StringT	PP-YYYY-Wwww-VCX	ro
Hardware Revision	22	StringT	V1.0	ro
Firmware Revision	23	StringT	V1.0.0	ro
Application-specific Tag	24	StringT		rw
Function Tag	25	StringT		rw
Location Tag	26	StringT		rw