

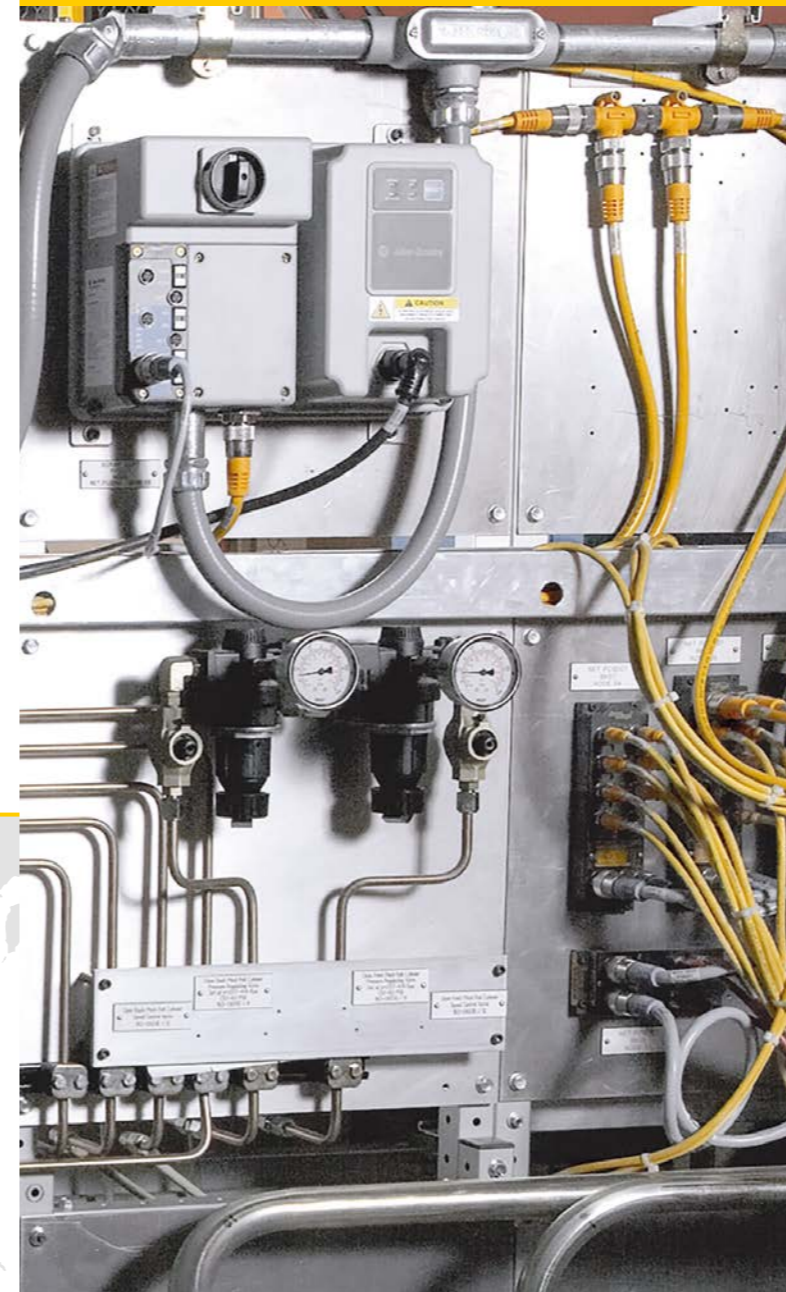
# Types and Features

Type code	Number of ports	Channels per port	Number of channels	LEDs
<b>Passive junction box with homerun cable</b>				
TB-4M12-4-*/TXL	4 x M12	1	4	-
TB-4M12-4P2-*/TXL	4 x M12	1	4	yes**
TB-4M12-5-*/TXL	4 x M12	2	8	-
TB-4M12-5P3-*/TXL	4 x M12	2	8	yes**
TB-6M12-4-*/TXL	6 x M12	1	6	-
TB-6M12-4P2-*/TXL	6 x M12	1	6	yes**
TB-6M12-5-*/TXL	6 x M12	2	12	-
TB-6M12-5P3-*/TXL	6 x M12	2	12	yes**
TB-8M12-4-*/TXL	8 x M12	1	8	-
TB-8M12-4P2-*/TXL	8 x M12	1	8	yes**
TB-8M12-5-*/TXL	8 x M12	2	16	-
TB-8M12-5P3-*/TXL	8 x M12	2	16	yes**
<b>Passive junction box with homerun connector</b>				
TB-4M12-4-CS12T	4 x M12	1	4	-
TB-4M12-4P2-CS12T	4 x M12	1	4	yes**
TB-4M12-4-CSM2H	4 x M12	1	4	-
TB-4M12-4P2-CS12H	4 x M12	1	4	yes**
TB-4M12-5-CS19T	4 x M12	2	8	-
TB-4M12-5P3-CS19T	4 x M12	2	8	yes**
TB-4M12-5-CS19H	4 x M12	2	8	-
TB-4M12-5P3-CS19H	4 x M12	2	8	yes**
TB-6M12-4-CS12T	6 x M12	1	6	-
TB-6M12-4P2-CS12T	6 x M12	1	6	yes**
TB-6M12-4-CS12H	6 x M12	1	6	-
TB-6M12-4P2-CS12H	6 x M12	1	6	yes**
TB-6M12-5-CS19T	6 x M12	2	12	-
TB-6M12-5P3-CS19T	6 x M12	2	12	yes**
TB-6M12-5-CS19H	6 x M12	2	12	-
TB-6M12-5P3-CS19H	6 x M12	2	12	yes**
TB-8M12-4-CS12T	8 x M12	1	8	-
TB-8M12-4P2-CS12T	8 x M12	1	8	yes**
TB-8M12-4-CS12H	8 x M12	1	8	-
TB-8M12-4P2-CS12H	8 x M12	1	8	yes**
TB-8M12-5-CS19T	8 x M12	2	16	-
TB-8M12-5P3-CS19T	8 x M12	2	16	yes**
TB-8M12-5-CS19H	8 x M12	2	16	-
TB-8M12-5P3-CS19H	8 x M12	2 </td <td>16</td> <td>yes**</td>	16	yes**

\*Standard lengths: 2, 5 and 10 m  
 \*\*LEDs: 1 x power all, 1 x per channel

Your Global Automation Partner

## Overview Passive Junctions



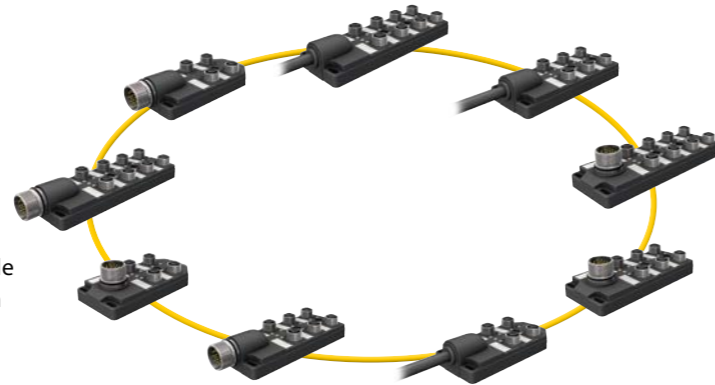
28 subsidiaries and over 60 representations worldwide!



# Passive Junctions

Passive junction boxes for bundling field signals

Actuator/sensor junction boxes gather the signals of different field devices and bundle them in a multipole cable. They are quickly installed, ensure shorter downtimes in the event of servicing and foster transparent cable routing between the periphery and the cabinet. We offer different module concepts with homerun cables and pluggable junction boxes. The pluggable junction boxes are qualified for drag chain use, because this often involves the replacement of cables.



Type code – Passive junction box with homerun connector

<b>TB</b>	<b>8</b>	<b>M12</b>	<b>V</b>	<b>5</b>	<b>P</b>	<b>3</b>	<b>CS19</b>	<b>T</b>	<b>TXL</b>		
<b>TB</b>	Product series			<b>8</b>	<b>M12</b>	<b>V</b>	Ports	<b>5</b>	<b>P</b>	<b>3</b>	Assignment
Junction Box				Material threaded bush		Number of LEDs (if applicable)		LED Type			
				blank brass, nickel-plated		2 1 power + 1 signal LED/port		blank no LED			
				V stainless steel		3 1 power + 2 signal LEDs/port		P PNP LED			
				Connector		LED Type		N NPN LED			
				M12 male M12 x 1		blank no LED		Channels per port			
				Number of ports		P PNP LED		4 1 signal/port			
				4 4 ports		N NPN LED		5 2 signal/port			
				6 6 ports							
				8 8 ports							

<b>CS19</b>	<b>T</b>	Connection	<b>TXL</b>	Special version
Connector exit		Special version		
T	top exit	TXL	TPU cable	
H	side exit	CS...	customer specific	
Type				
CSV12	12-pin M23 (stainless steel)			
CS19	19-pin M23 (brass)			
CSV19	19-pin M23 (stainless steel)			

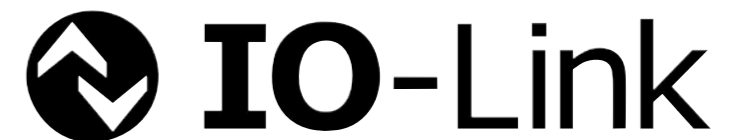
Type code – Passive junctions with homerun cable

<b>TB</b>	<b>8</b>	<b>M12</b>	<b>V</b>	<b>5</b>	<b>P</b>	<b>3</b>	<b>CSM19</b>	<b>TXL</b>			
<b>TB</b>	Product series			<b>8</b>	<b>M12</b>	<b>V</b>	Ports	<b>5</b>	<b>P</b>	<b>3</b>	Assignment
Junction Box				Material threaded bush		Number of LEDs (if applicable)		LED Type			
				- brass, nickel-plated		2 1 power + 1 signal LED/port		blank no LED			
				V stainless steel		3 1 power + 2 signal LEDs/port		P PNP LED			
				Connector		LED Type		N NPN LED			
				M12 male M12 x 1		blank no LED		Channels per port			
				Number of ports		P PNP LED		4 1 signal/port			
				4 4 ports		N NPN LED		5 2 signal/port			
				6 6 ports							
				8 8 ports							

<b>5</b>	Cable length	<b>CSM19</b>	Connection	<b>TXL</b>	Special version
Cable length		Molded homerun connector type (if applicable)		Special version	
5	5 m	CSMV12	12-pin M23 (brass)	TXL	TPU cable
...	...m	CSM19	19-pin M23 (brass)	CS...	customer specific

I/O hub junction box with IO-Link

A junction box with IO-Link connection is a consistently further developed nexus of passive connection and bus technology. The I/O hub junction box needs only 3 wires to link up to 16 sensors or actuators with the cabinet. Also available are diagnostics for power supply and short-circuit of the field devices connected to the IO-Link master.



Type code	Number of ports	Channels per port	Number of channel
TBIL-M1-16DIP	8 x M12	2	16
TBIL-M1-8DOP	8 x M12	1	8

Connection cables in different lengths and qualities are available on request