DISTRIBUTION BOXES

GENERAL FEATURES:

Type of terminations :
Terminal block with screws.

Cable Gland :
PG11 : ø CABLE 6.5 - 9.5mm.

Conductor cross section :
0.14(26AWG)...1mm²(17AWG).

Circuit type :
PNP circuit.
NPN circuit (upon request).

Local diagnostic :
Supply voltage: Green Led.
Status display I/O: Red Led.

SIGNAL per OUTLET:
Single.

Rated voltage:
10-30V DC.

Rated current:
Current carrying capacity per I/O signal: 2A.
Current carrying capacity per slot: 2A.
Total rated current: 8A.

Fixing system :
M8 coupling nut.

Max. screw torque IEC60947-1 :
M8 coupling nut torque 0.2N*m.

M8 Contact material and treatment :
Brass + Gold flash.

Housing material :
PA66 UL94-V2.

Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.

J	08	T	6	B	3	-	##

SERIES
J : DISTRIBUCTION BOX.

TYPE
08 : M8 CIRCULAR CONNECTOR.

GENDER
T : DISTRIBUCTION BOX FIELD ATTACHABLE.

NUMBERS OF POSITIONS
6 : 6 POSITIONS. **8** : 8 POSITIONS. **10** : POSITIONS.

COLOUR
B : BLACK.

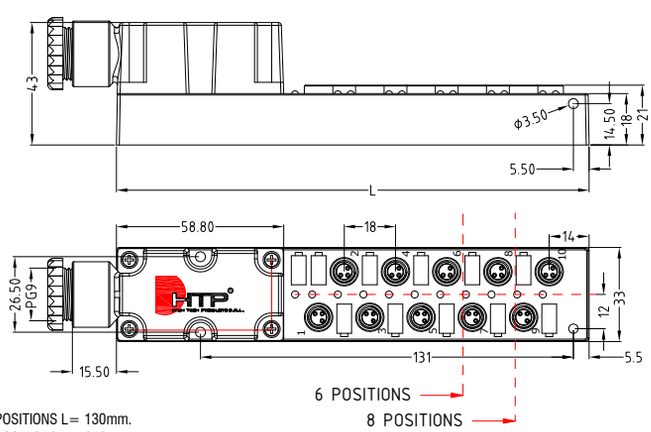
NUMBERS OF POLES
3 : 3POLES.

SOME VARIABLES
Y : WITHOUT H.T.P.LOGO.
WL : WITHOUT LED.
NPN: NPN CIRCUIT.

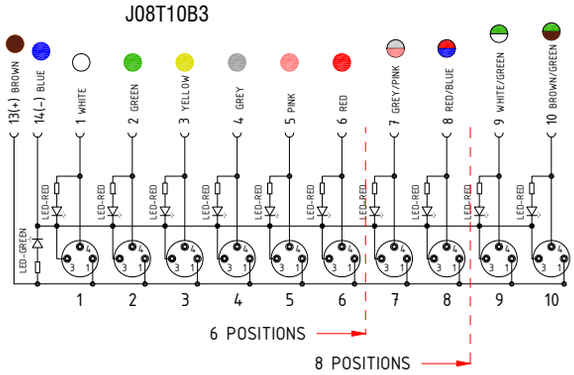
J08T6B3

J08T8B3

J08T10B3



6 POSITIONS L= 130mm.
8 POSITIONS L= 150mm.
10 POSITIONS L= 166mm.



GENERAL FEATURES:

Type of terminations :
Moulded cable.

Circuit type :
PNP circuit.
NPN circuit (upon request).

Local diagnostic :
Supply voltage: Green Led.
Status display I/O: Red Led.

SIGNAL per OUTLET:
Single.

Rated voltage:
10-30V DC.

Rated current:
Current carrying capacity per I/O signal: 2A.
Current carrying capacity per slot: 2A.
Total rated current: 8A.

Fixing system :
M8 coupling nut.

Max. screw torque IEC60947-1 :
M8 coupling nut torque 0.2N*m.

M8 Contact material and treatment :
Brass + Gold flash.

Housing material :
PA66 UL94-V2.

Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.

J	08	C	4	B	3	P	5Z	-	##

SERIES
J : DISTRIBUCTION BOX.

TYPE
08 : M8 CIRCULAR CONNECTOR.

GENDER
C : DISTRIBUCTION BOX WITH CABLE.

NUMBERS OF POSITIONS
4 : 4 POSITIONS. **6** : 6 POSITIONS. **8** : 8 POSITIONS.
10 : 10 POSITIONS. **12** : 12 POSITIONS.

COLOUR
B : BLACK.

NUMBERS OF POLES
3 : 3POLES.

CABLE TYPE
P : PUR/PUR. **V** : PVC/PVC.

CABLE LENGTH
5Z : 5m.
10 : 10m.

SOME VARIABLES
Y : WITHOUT H.T.P.LOGO. **WL**: WITHOUT LED. **NPN**: NPN CIRCUIT.

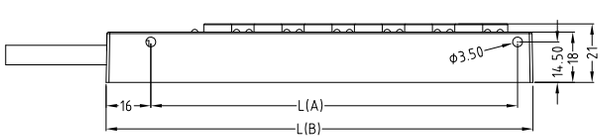

J08C4B3...


J08C6B3...

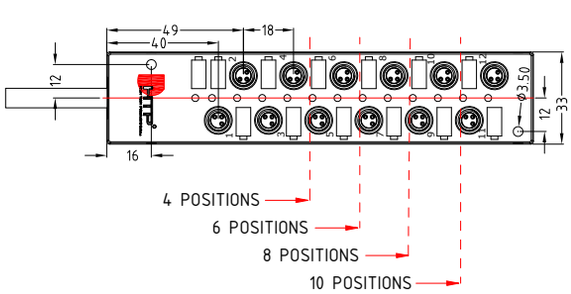

J08C10B3...

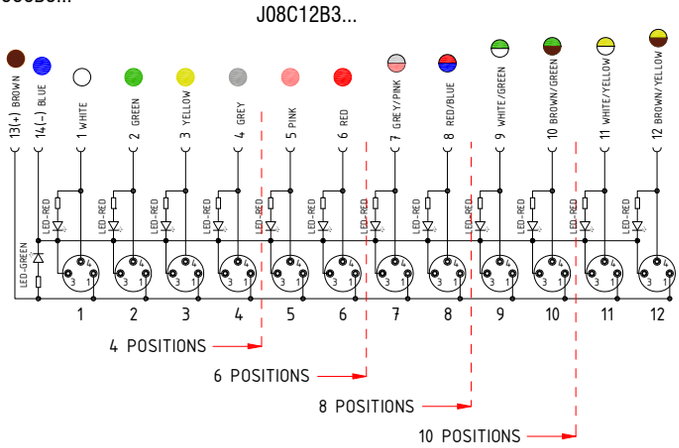

J08C8B3...


J08C12B3...



4 POSITIONS L(A)= 59.50mm. L(B)= 81mm
6 POSITIONS L(A)= 77.50mm. L(B)= 99mm.
8 POSITIONS L(A)= 95.50mm. L(B)= 117mm.
10 POSITIONS L(A)= 113.50mm. L(B)= 135mm.
12 POSITIONS L(A)= 131.50 mm. L(B)= 153mm.





GENERAL FEATURES:

Type of terminations :
M12 connector.

Cable Gland :
PG11 : ø CABLE 6.5 - 9.5mm.

Circuit type :
PNP circuit.
NPN circuit (upon request).

Local diagnostic :
Supply voltage: Green Led.
Status display I/O: Red Led.

SIGNAL per OUTLET:
Single.

Rated voltage:
10-30V DC.

Rated Current (4-6-12 positions):
Current carrying capacity per I/O signal: 2A.
Current carrying capacity per slot: 2A.
Total rated current: 2A.

Rated Current (8 positions):
Current carrying capacity per I/O signal: 1.5A.
Current carrying capacity per slot: 1.5A.
Total rated current: 1.5A.

Fixing system :
M8 coupling nut.

Max. screw torque IEC60947-1 :
M8 coupling nut torque 0.2N*m
M12 coupling nut torque 0.4N*m

M8 Contact material and treatment :
Brass + Gold flash.

Housing material :
PA66 UL94-V2.

Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.

J	08	M	4	B	3	-	##

SERIES
J : DISTRIBUCTION BOX.

TYPE
08 : M8 CIRCULAR CONNECTOR.

GENDER
M : DISTRIBUCTION BOX WITH M12.

NUMBERS OF POSITIONS
4 : 4 POSITIONS. **6** : 6 POSITIONS. **8** : 8 POSITIONS.
10 : 10 POSITIONS. **12** : 12 POSITIONS.

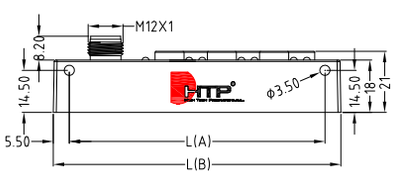
COLOUR
B : BLACK.

NUMBERS OF POLES
3 : 3POLES.

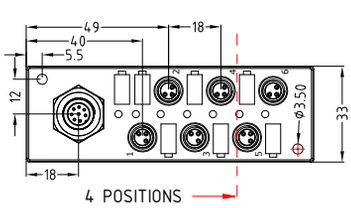
SOME VARIABLES
Y : WITHOUT H.T.P.LOGO.
WL : WITHOUT LED.
NPN: NPN CIRCUIT.

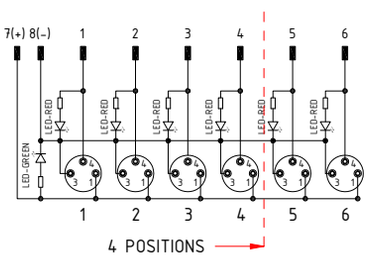
J08M4B3

J08M6B3



4 POSITIONS L(A)= 70mm. L(B)= 81mm.
6 POSITIONS L(A)= 88mm. L(B)= 99mm.





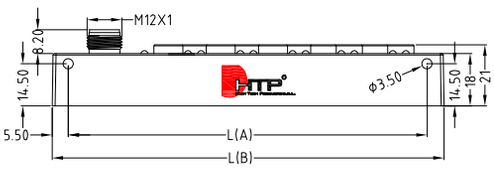
NEW

DISTRIBUTION BOXES

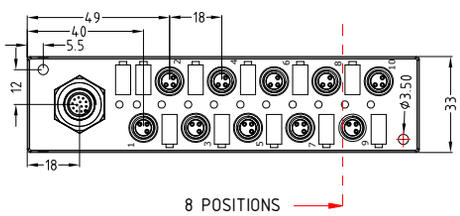
M8 distribution boxes with M12 INPUT connector

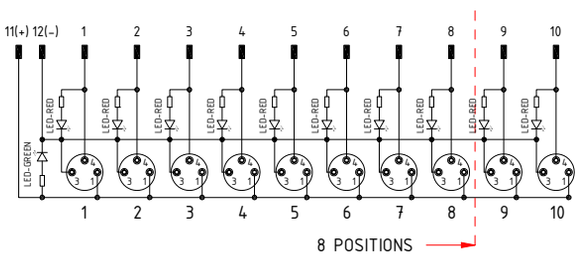
J08M8B3

J08M10B3

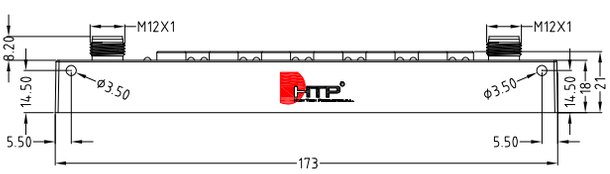


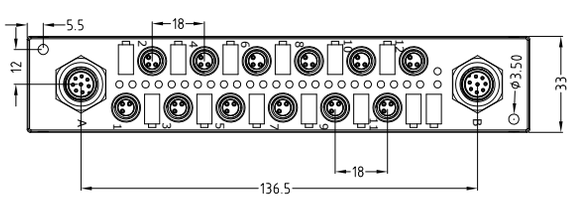
8 POSITIONS L(A)= 105.75mm. L(B)= 116.75mm.
10 POSITIONS L(A)= 123.50mm. L(B)= 134.90mm.

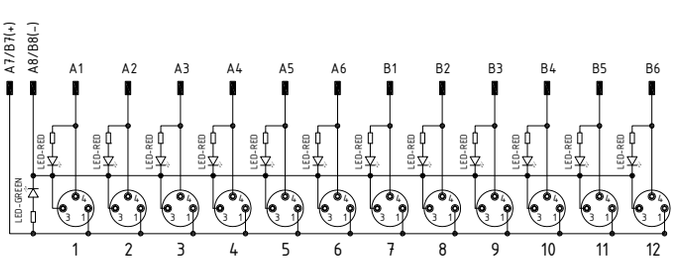




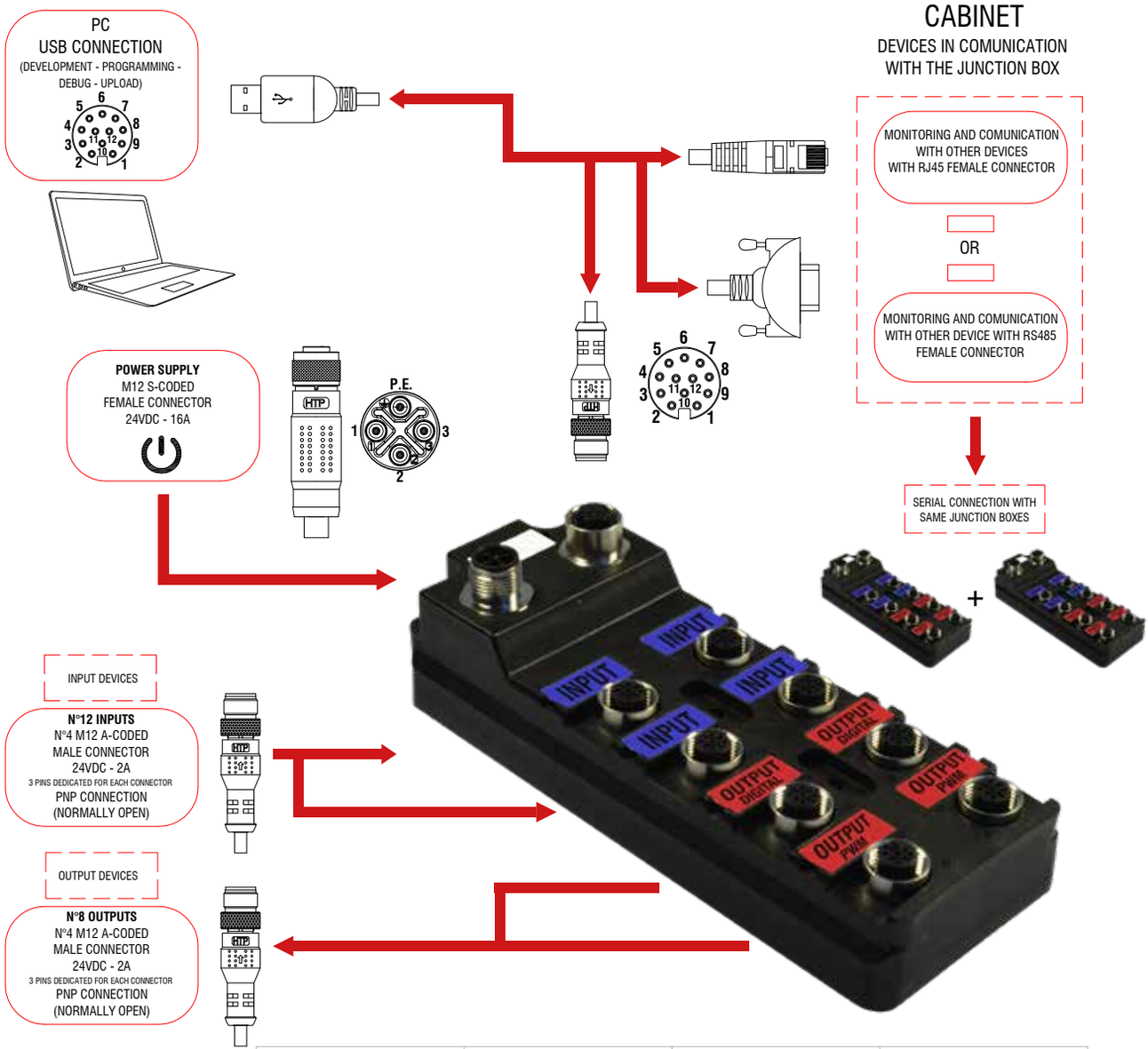
J08M12B3







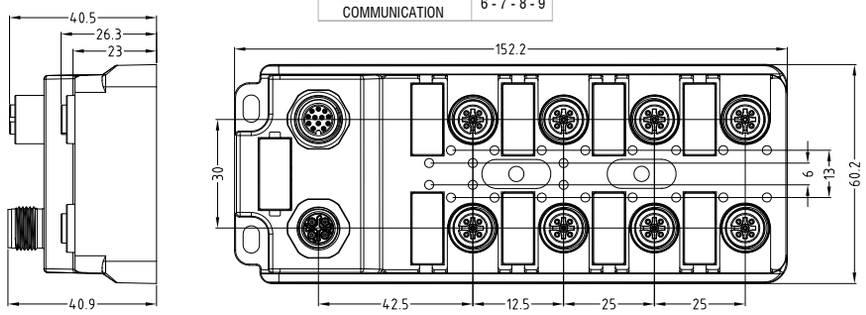
IP67 SMART JUNCTION BOX WITH INTEGRATED PLC



IP67

POWER CONNECTOR		PROGRAMMING CONNECTOR		INPUTS CONNECTOR		OUTPUTS CONNECTOR	
M12 S-CODED MALE 4 POLES		M12 A-CODED FEMALE 12 POLES		M12 A-CODED FEMALE 5 POLES		M12 A-CODED FEMALE 4 POLES	
FUNCTION	**PINS**	**FUNCTION**	**PINS**	**FUNCTION**	**PINS**	**FUNCTION**	**PINS**
POWER SUPPLY	1 - 3	PCB CONFIGURATION ONLY	1 - 10 11 - 12	POWER SUPPLY	1 - 3	POWER SUPPLY	1 - 3
OUTPUTS DIGITAL/ PWM SIGNALS	2 - 4	USB I/O CONFIGURATION	2 - 3 - 4 - 5	INPUTS DIGITAL SIGNALS	2 - 4 - 5	OUTPUTS DIGITAL/ PWM SIGNALS	2 - 4
		BUS OR ETHERNET COMMUNICATION	6 - 7 - 8 - 9				

TASKSCRIPT SOFTWARE



DISTRIBUTION BOXES

IP67 Smart junction box with integrated PLC

General features	Power supply	Programming	Inputs	Outputs
Connectors qty	n°1	n°1	n°4	n°4
Connector type	M12 S-coded	M12 A-coded	M12 A-coded	M12 A-coded
Contacts type	Male	Female	Female	Female
Number of contacts	n°4	n°12	n°5	n°4
Rated voltage	24V DC	5V DC	12V DC < Vn < 30V DC	24V DC
Rated current	16A	-	2A	2A
Electrical protection	Overvoltage protection	-	Optoisolated connections	Optoisolated connections
Coupling nut material	Brass+Nickel plated			
Housing material	PA66 UL94-V2			
Protection class	IP67			
Operating temperature	-40°C +90°C			
I/O features	Signal circuit type	Signal contacts qty	Signal type	
Inputs	PNP	n°12 (n°3 for each connector)	digital*	
Outputs	PNP	n°8 (n°2 for each connector)	n°4 digital* - n°4 PWM**	
*digital : Simply "ON/OFF" signal, without any suddivision - **PWM : Digital scalar signal, from 0%(value=0) to 100% (value=1023)				
Application features	Development type	Communication protocols	Scans qty	Scan qty
TaskScript studio	Grafic (Model-Based IDE)	ModBUS/RTU, ModBUS/TCP, HTTP/TCP/IP	10k scans/sec	<0,2ms

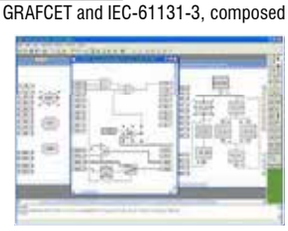
Notes:
- User friendly programming language (Sequential function chart) derived from GRAFCET and IEC-61131-3
- Fast program-debug-deploy cycle

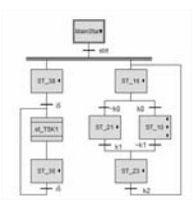
The application development environment is based on a graphical environment running upon the Windows Operating systems (from Windows XP to Windows 10), which assists the designer throughout the whole design cycle of an embedded application, from the sketch of the first modules to the deployment of the executable code to the target physical board.
The main supported phases are:

- Modeling of the solution using the graphical language;
- Validation of the design and code generation;
- Simulation of the design, possibly interacting with a model of the controlled periphery;
- Upload of the embedded application to the target physical junction box;
- Test of the design within the physical environment.
- Diagnosis of the physical environment.

Modeling of the solution using the graphical language

The graphical lenguage is based on GRAFCET and IEC-61131-3, composed by flow chart of steps; each of them contains one or more tasks; that is made of connections between I/O using mathematics and Boolean's gates.



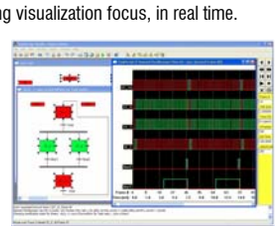


Validation of the design and codes generation

This application can validate and generate the code necessary to create the working file to upload on the Juction box.
The validation explain clearly,which are the mistakes made during the program creation, making a report file available directly on the application.
During the codes generation phase can be made all the file, also the one usable to make the simulation.

Simulation of the design, possibly interacting with a model of the controlled periphery

Using the same application, easly can be made a step by step simulation, focused specific inputs, outputs, tasksand variables present on the flow chart steps.
It is possible changing the simulating visualization focus, in real time.



Upload of the embedded application to the target physical junction box

Thanks the connection available by USB, it is easly uploading the application using the code generation, on the junction box.

Test of the design within the physical environment

Using the application is possible to verify the correct operation of the program, directly on the junction box.

Diagnosis of the physical environment

It is easy to verifiy the correct operation of the junction box during the work functions

PLC Junction Box KIT features	Part number	Packing	Quantity
Junction box PLC KIT	J12R8B5-KIT-PLC	carton box (complete of the products below)	n°1
KIT components features			
PLC Junction box	J12R8B5-PLC	carton box (complete of general information sheet)	n°1
Power connector	S-12FD4B5Z-PLC	plastic bag (complete of wiring diagram sheet)	n°1
USB connector	12MA12XX5ZUSB-PLC	plastic bag (complete of wiring diagram sheet)	n°1

Notes:
- Usually to get the Junction Box is needed to buy the KIT complete of components
- In special cases it is possible to buy a part of the kit, please contact us to verify the feasibility

J12R85B5-PLC

12MA12XX5ZUSB-PLC

S-12FD4B5Z-PLC

PLC Junction Box accessories	Part number	Packing
RS485 connector part number	12MA12A5ZMB-PLC	pastic bag (complete of wiring diagram sheet)
INPUT connector part number	A5B0C-C3-C3-C3-PLC	pastic bag (complete of wiring diagram sheet)
OUTPUT connector part number	A4B0C-C3-C3-PLC	pastic bag (complete of wiring diagram sheet)

Notes:
- please contact us to verify the MOQ to place a order

12MA12A5ZMB-PLC

A5B0C-C3-C3-C3-PLC

A4B0C-C3-C3-PLC

GENERAL FEATURES:

Type of terminations :
Terminal block with screws.

Cable Gland :
PG13.5 : ø CABLE 7 - 12mm.

Conductor cross section :
0.14(26AWG)...1.5mm²(16AWG).

Circuit type :
PNP circuit.
NPN circuit (upon request).

Local diagnostic :
Supply voltage: Green Led.
Status display I/O: Red Led.

SIGNAL per OUTLET:
Double.
Single(upon request).

Rated voltage:
10-30V DC.

Rated current:
Current carrying capacity per I/O signal: 2A.
Current carrying capacity per slot: 4A.
Total rated current: 10A.

Fixing system :
M12 coupling nut.

Max. screw torque IEC60947-1 :
M12 coupling nut torque 0.4N*m.

M12 Contact material and treatment :
Brass + Gold flash.

Housing material :
PA66 UL94-V2.

Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.

J	12	T	4	B	5	-	PG13.5	##

SERIES
J : DISTRIBUCTION BOX.

TYPE
12 : M12 CIRCULAR CONNECTOR.

GENDER
T : DISTRIBUCTION BOX FIELD ATTACHABLE.

NUMBERS OF POSITIONS
4 : 4 POSITIONS. **6** : 6 POSITIONS. **8** : 8 POSITIONS.

COLOUR
B : BLACK.

NUMBERS OF POLES
5 : 5POLES (STANDARD). **4** : 4POLES (SINGLE SIGNAL).

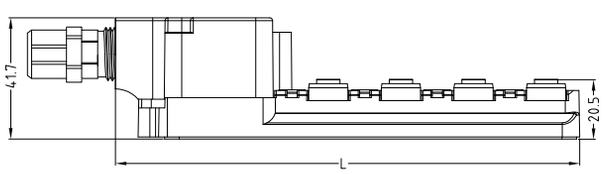
CABLE GLAND

SOME VARIABLES
Y : WITHOUT H.T.P.LOGO.
WL : WITHOUT LED.
NPN: NPN CIRCUIT.

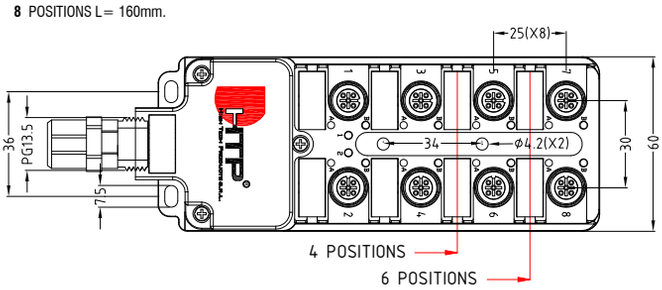
J12T4B...

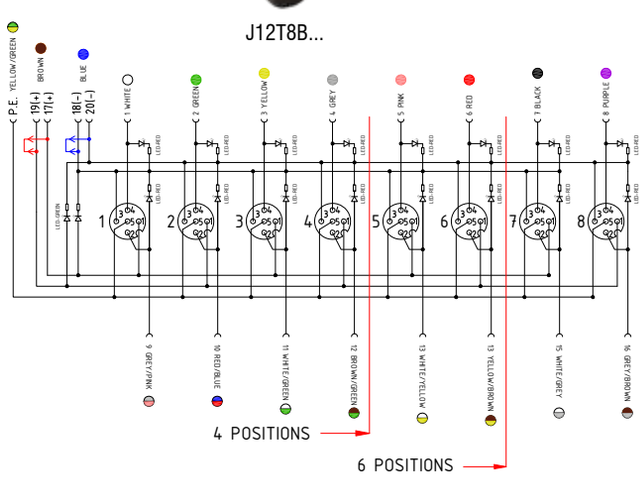
J12T6B...

J12T8B...



4 POSITIONS L= 110mm.
6 POSITIONS L= 135mm.
8 POSITIONS L= 160mm.





GENERAL FEATURES:

Type of terminations :
Moulded cable.

Circuit type :
PNP circuit.
NPN circuit (upon request).

Local diagnostic :
Supply voltage: Green Led.
Status display I/O: Red Led.

SIGNAL per OUTLET:
Double.
Single (upon request).

Rated voltage:
10-30V DC.

Rated current:
Current carrying capacity per I/O signal: 2A.
Current carrying capacity per slot: 4A.
Total rated current: 10A.

Fixing system :
M12 coupling nut.

Max. screw torque IEC60947-1 :
M12 coupling nut torque 0.4N*m.

M12 Contact material and treatment :
Brass + Gold flash.

Housing material :
PA66 UL94-V2.

Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.

J	12	C	4	B	5	P	5Z	-	##

SERIES
J : DISTRIBUCTION BOX.

TYPE
12 : M12 CIRCULAR CONNECTOR.

GENDER
C : DISTRIBUCTION BOX WITH CABLE.

NUMBERS OF POSITIONS
4 : 4 POSITIONS. **6** : 6 POSITIONS. **8** : 8 POSITIONS.

COLOUR
B : BLACK.

NUMBERS OF POLES
5 : 5POLES (STANDARD). **4** : 4POLES (SINGLE SIGNAL).

CABLE TYPE
P : PUR/PUR. **V** : PVC/PVC.

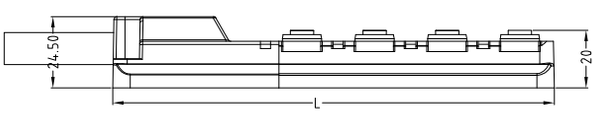
CABLE LENGTH
5Z : 5m.
10 : 10m.

SOME VARIABLES
Y : WITHOUT H.T.P.LOGO. **WL** : WITHOUT LED. **NPN**: NPN CIRCUIT.

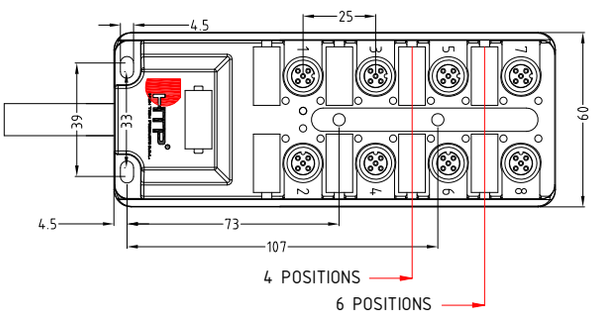
J12C4B...

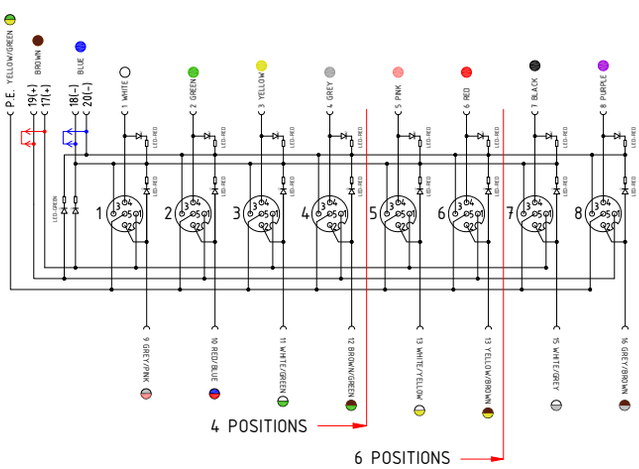
J12C6B...

J12C8B...



4 POSITIONS L= 102mm.
6 POSITIONS L= 130mm.
8 POSITIONS L= 150mm.





DISTRIBUTION BOXES

M12 distribution boxes with M23 INPUT connector

• GENERAL FEATURES:

Type of terminations :
M23 connector.

Circuit type :
PNP circuit.
NPN circuit (upon request).

Local diagnostic :
Supply voltage: Green Led.
Status display I/O: Red Led.

SIGNAL per OUTLET:
Double.
Single(Upon request).

Rated voltage:
10-30V DC.

Rated current:
Current carrying capacity per I/O signal: 2A.
Current carrying capacity per slot: 4A.
Total rated current: 12A.

Fixing system :
M12 coupling nut.

Max. screw torque IEC60947-1 :
M12 coupling nut torque 0.4 N*m.

Contact material and treatment :
Brass + Gold flash.

Housing material :
PA66 UL94-V2.

Internal core material :
PA66 UL94-V2.

Coupling nut material :
Brass+Nickel plated.

Flammability resistance :
UL94-V2 - Standard.

Protection class :
IP 67 (assembled).

Operating temperature :
-40°C +90°C.

J | 12 | N | 8 | B | 5 | - | ##

SERIES
J : DISTRIBUCTION BOX.

TYPE
12 : M12 CIRCULAR CONNECTOR.

GENDER
N : DISTRIBUCTION BOX WITH M23.

NUMBERS OF POSITIONS
8 : 8 POSITIONS.

COLOUR
B : BLACK.

NUMBERS OF POLES
5 : 5POLES.

SOME VARIABLES
Y : WITHOUT H.T.P.LOGO.
WL : WITHOUT LED.
NPN: NPN CIRCUIT.

J12N8B5