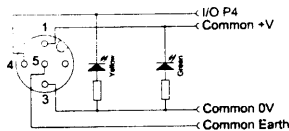


- Frees up skilled workforce for more demanding tasks, whilst reducing the risk of wiring errors and increasing factory throughput
- Quick disconnect solution enables installation or maintenance by semiskilled operators, especially when unscheduled down time occurs through device or cable failure.
- Twin I/O versions increases the density of control devices per unit with LED indication of power and signals for fast fault finding
- Unique choice of either top or side mounted I/O connections for compact or low profile installations, all provided in a robust design sealed waterproof up to IP68

*Balluff/Multiswitch Prefix all part numbers in this section with BK -.



Cable

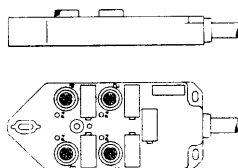
Length (m)

5 pole 4 Wire – Single I/O Top-Mount Multi-Splitter Boes

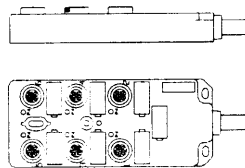
Function	Cable Colour	M23 Connector Pin No	Mini-Change Pin No	Function	Cable Colour	M23 Connector Pin No	Mini-Change Pin No
+V	Brown	11	10	Earth	Green/Yellow	12	9
0V	Blue	9 & 10	11				
Port 1 P4	White	1	1	Port 5 P4	Pink	5	5
Port 2 P4	Green	2	2	Port 6 P4	Red	6	6
Port 3 P4	Yellow	3	3	Port 7 P4	Black	7	7
Port 4 P4	Grey	4	4	Port 8 P4	Violet	8	8

Integral Cable Entry

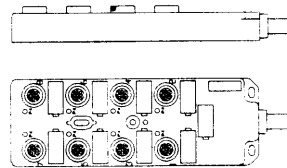
4 Port



6 Port



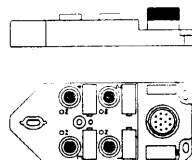
8 Port



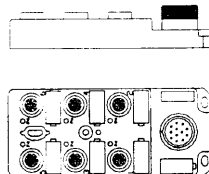
PVC	5.0	BTY400P-FBE-05	BTY600P-FBE-05	BTY800P-FBE-05
	10.0	BTY400P-FBE-10	BTY600P-FBE-10	BTY800P-FBE-10
	20.0	BTY400P-FBE-20	BTY600P-FBE-20	BTY800P-FBE-20
PUR	5.0	BTY400P-FBP-05	BTY600P-FBP-05	BTY800P-FBP-05
	10.0	BTY400P-FBP-10	BTY600P-FBP-10	BTY800P-FBP-10
	20.0	BTY400P-FBP-20	BTY600P-FBP-20	BTY800P-FBP-20

Integral M23 12 Pole Home Run Connector

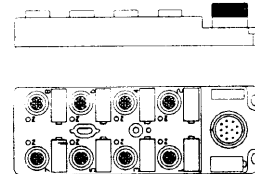
4 Port



6 Port



8 Port



See top of page 19
for connectors

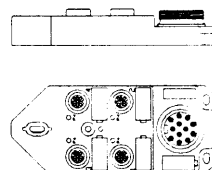
BTY401P-FBC

BTY601P-FBC

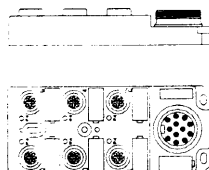
BTY801P-FBC

Integral Mini-Change® 12 Pole Home Run Connector

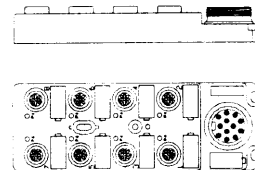
4 Port



6 Port



8 Port



See top of page 20
for connectors

BTY401P-FBB

BTY601P-FBB

BTY801P-FBB

Standard: Power and single status LED per port, identification labels, two sealing caps
Options: NPN format LED indication, choice of cable see page 40 for more information

Multi-Port Splitter Box Matrix

B T Y 8 0 0 P - F B P - 0 5

Nano-Change® Multi-Ports
BEY - End Cable Entry
BNY - Top Cable Entry & Connector
Micro-Change® Multi-Ports
BTY - Top Mount
BSY - Side Mount

Length
05 - 5 metres
10 - 10 metres
20 - 20 metres

*Balluff/
Multiswitch
Prefix all part
numbers in
this section
with BK -.

Number of Ports
4 - 4 Ports 8 - 8 Ports
6 - 6 Ports A - 10 Ports

Wiring Configuration
00/01 - 5 Pole/4 Wire - Single I/O per port
03/05 - 5 Pole/5 Wire - Twin I/O per port
04 - 4 Pole/3 Wire - Single I/O per port - no earth

LED Configuration
P - PNP Format N - NPN Format** 0 - No LEDs**

Termination Options

Pre-wired versions*
E - PVC Cable
P - PUR Cable

Connectorised versions
B - Mini-Change® Connector
C - M16 or M23 Connector

Receptacle Material

FB - Standard
FX - Plastic**
FS - Stainless Steel**

Connector Matrix

8 0 3 0 0 0 E 0 3 M 0 2 0

Options:

Not all are available on
standard delivery terms,
please consult our sales
office before ordering

* Refer to cable
specification and use
code indicated in matrix
above

**NPN or no LED
indication, select from
above part number
matrixes, minimum order
quantity 25 pieces for
Connectors and 5 pieces
for Multi-Ports

**Coupling materials
and connector colour
minimum quantities
apply to all orders

**Choice of suppression
and LED colour for
mPm® product, please
request separate
catalogue

Connector Type

Nano-Change® M8 Snap
50 - Moulded Connector
55 - Nano Jumper
58 - Nano to Micro Jumper

Nano-Change® M8 Coupler
40 - Moulded Connector
44 - Nano Jumper
48 - Nano to Micro Jumper

Micro-Change® M12 Coupler
80 - Moulded Connector
88 - Micro Jumper
84 - Micro to Nano Jumper

mPm® DIN 43650 Jumpers

D4 - Form B (10mm) to Nano
E4 - Form A (18mm) to Nano
F4 - Form B (11mm) to Nano
G4 - Form C (9.4mm) to Nano
H4 - Form C (8.0mm) to Nano
D8 - Form B (10mm) to Micro
E8 - Form A (18mm) to Micro
F8 - Form B (11mm) to Micro
G8 - Form C (9.8mm) to Micro
H8 - Form C (8.0mm) to Micro

Cable ID No.*

E03 - Yellow PVC 0.34mm²
P03 - Black PUR 0.34mm²
S20 - Yellow SJTO type 0.34mm²

Cable Length

M010 - 1.0 metres
M020 - 2.0 metres
M030 - 3.0 metres

Coupling Materials**

1 - Stainless Steel

5 - Plastic

Connector Colour**

A - Grey Head Moulding

G - Black Head Moulding

Head Configuration

Moulded Connectors

000 - Female Straight
001 - Female 90°
0N0 - Female Straight NPN LED**
0N1 - Female 90° NPN LED**
0P0 - Female Straight PNP LED
0P1 - Female 90° PNP LED
006 - Male Straight
007 - Male 90°

Jumpers - Basic Brad® Only

030 - Female Straight to Male Straight
031 - Female 90° to Male Straight
032 - Female Straight to Male 90°
033 - Female 90° to Male 90°
0P6 - Female Straight PNP LED to Male Straight
0P7 - Female 90° PNP LED to Male Straight
0P8 - Female Straight PNP LED to Male 90°
0P9 - Female 90° PNP LED to Male 90°

Number of Poles

3 - 3 Pole
4 - 4 Pole

5 - 5 Pole
8 - 8 Pole

Connector Specification

Series	40, 4R, 44, 50, 5R, 55		N03, N04	80, 8R, 88		8A	30	L0	K0	
Product	Nano-Change®		Nano-Change®	Micro-Change®		Micro-Change®	Mini-Change®	mPm® DIN 43650	M16 Connector	M23 Connector
Connector Type	Moulded & Receptacles		Attachables	Moulded & Receptacles		Attachables	Moulded	Moulded & Attachable	Moulded	Moulded
Connector Size	M8 Coupler & Snap		M8 Coupler	M12 Coupler		M12 Coupler	1 1/8" UNF Coupler	Form A, B & C	M16 Coupler	M23 Coupler
Number of Poles	3 to 5		3 & 4	3, 4, 5 & 8		4 & 5	12 & 19	2 + earth	14	12 & 19
Contact Material	Female	Gold plated Brass	Gold plated Brass	Gold plated Brass		Silver plated Brass	Gold plated Brass	Silver plated Brass	Gold plated Brass	Gold plated Brass
	Male	Gold plated Brass	Gold plated Brass	Gold plated Brass		Silver plated Brass	Gold plated Brass	n/a	n/a	Gold plated Brass
Insert Material	PUR		PA	PA		PA	PVC	PA (+G)	PPO	PUR
O-ring Material	Viton		Viton	Viton		Viton	n/a	Profiled NBR	EPDM - Rubber	NBR
Body Material	PVC		PA	PVC		PA	PVC	PP	PUR	PUR
Coupling Material	Nickel plated Brass		Nickel plated Brass	Epoxy Coated Zinc		Nickel plated Brass	Epoxy Coated Zinc	n/a	Aluminium	Nickel plated Brass
Voltage Rating	Standard	60 Vac/75 Vdc	60 Vac/75 Vdc	3, 4 & 5 pole - 250 Vac/300 Vdc		4 pole - 250 Vac/300 Vdc	600 Vac/dc	250 Vac/dc	150 Vac/dc	63 Vac/dc
				8 pole - 30 Vac/36 Vdc		5 pole - 30 Vac/36 Vdc				
	With LED	10 to 30 Vdc	n/a	10 to 30 Vdc		n/a	n/a	24 Vac/dc	n/a	n/a
Contact Current Rating		4 Amps	4 Amps	4 Amps		4 Amps	Ø 1.0mm - 4 Amps Ø 2.0mm - 13 Amps	Form A & B - 18 Amps Form C - 10 Amps	3 Amps	Ø 1.0mm - 6 Amps Ø 1.5mm - 12 Amps
Protection Class	IP67		IP67	IP68		IP68	IP68	IP65	IP67	IP67

Environmental Rating - IP68. Is defined as immersion in water at a pressure of 100 pounds per square inch for a duration of one hour, and wash down at a pressure of 1000 pounds per square inch. When used with a mating pair of Brad Harrison® connectors.