

Micro-Change® Cordset Family

Small Space? Big Solution.

When space and time are in short supply, look no further than Brad Harrison® brand for the best, ready-made m12 connector solutions. For fast, compact migration towards softwiring, Brad Harrison Micro-Change m12 connectors are ideal connectivity solutions for 12mm to 18mm sensors and switches. For applications requiring an increased pin count in a standard m12 configuration, the Brad Harrison 8-pin Micro-Change connector family is there for you. A variety of configurations are available, such as DC and both American and European standard AC form factors.

Applications

Micro-Change m12 connectors can be found on a large variety of both input and output connection points. A variety of sensors, switches, safety light curtains and mats can benefit from “quick-disconnect” forms. All of which rely on the use of cordsets for faster wiring, fewer errors and continued protection within a variety of environments. For control output connections, such as valves, solenoids, and indicating light towers, the Brad Harrison Micro-Change connector family provides a reliable and secure connection. The Micro-Change connector is the standard connection for industrial bus networks when inputs and outputs need to be connected reliably to ensure constant communication with the bus.



Brad® Ultra-Lock® (M12) Distribution Boxes (Europe)

120119

**Dual-Wired Ports with
PUR HR Cable**



Features and Benefits

- Fully potted, factory assembled boxes simplify on machine wiring installations
- Accepts Ultra-Lock and threaded M12 cordsets
- Two input/outputs per port
- Indicating LEDs for power and sensor trigger indication
- Versions available for use with PNP and NPN sensors
- Integral Home Run cable eliminates need for purchase of additional component for installation

Electrical

Voltage: 10 to 30V DC max.
Amperage: Module—12.0A max.
Port—4.0A max.

Physical

Housing: PBT
Port Shell Material: Nickel-plated Brass
Contacts: Copper alloy with Gold over Nickel plating
Wiring Configuration: Dual I/O, M12 5-pole female port
Home Run Cable: Black PUR cable, conductors:
4-port— $8 \times 0.34\text{mm}^2 + 3 \times 0.75\text{mm}^2$
6-port— $12 \times 0.34\text{mm}^2 + 3 \times 0.75\text{mm}^2$
8-port— $16 \times 0.34\text{mm}^2 + 3 \times 0.75\text{mm}^2$

Environmental

Protection: IP67
NEMA Rating: NEMA 6

Port Configuration	Box Configuration	Ports	LED Indicator	For Sensor	Cable Length	Top Mount	
						Engineering No.	Standard Order No.
		4	Yes	PNP	5.0m	BKY405P-FBP-05	120119-0007
		6	Yes	PNP	5.0m	BKY605P-FBP-05	120119-0015
		8	Yes	PNP	5.0m	BKY805P-FBP-05	120119-0023

Note: Sales drawings for all standard order numbers are available on molex.com

Configuration Code*
Build-a-Part Number

	Length	Code
Meters	5	05
	10	10
	15	15

BKY405P-FBP-05

*Once an engineering number is created using the configuration code, consult Molex tech support for information regarding any part numbers.