

Instructions for swapping AB light curtains to IFM while using the AB cables:

De-energize the unit following the facility's lockout & tagout procedures.

Disconnect the M12 8 PIN cable from the light curtain receiver.

Disconnect the 8 PIN Green, Gray, Pink and Red wires from the terminal strip inside the control panel.

Connect the 8 PIN White wire to terminal 51.

Connect the 8 PIN Green wire to terminal 50.

Connect the 8 PIN Yellow wire to terminal 53.

Connect the 8 PIN Gray wire to terminal 11.

Connect the 8 PIN Pink wire to terminal 10.

Connect the 8 PIN Red wire to the ground block.

Reconnect the M12 8 PIN cable to the light curtain receiver.

Disconnect the M12 4 PIN cable from the light curtain transmitter.

Connect both the 4 PIN White & Brown wires to terminal 10.

Connect both the 4 PIN Blue & Black wires to terminal 11.

Reconnect the M12 4 PIN cable to the light curtain transmitter.

A-B		
RECEIVER		
PIN	COLOR	CONNECTION
1	White	Unused
2	Brown	+24
3	Green	GND
4	Yellow	Unused
5	Gray	NO
6	Pink	NO
7	Blue	-24
8	Red	Reset input
TRANSMITTER		
1	Brown	+24
2	White	Unused
3	Blue	-24
4	Black	Unused

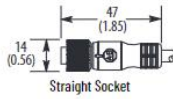
IFM					
RECEIVER					
PIN	COLOR	CONNECTION			
1	White	NO			
2	Brown	+24			
3	Green	NO			
4	Yellow	Reset input			
5	Gray	-24			
6	Pink	+24			
7	Blue	-24			
8	Red	GND			
TRANSMITTER					
5 PIN			4 PIN		
1	Brown	+24	1	Brown	+24
2	White	+24	2	White	+24
3	Blue	-24	3	Blue	-24
4	Black	-24	4	Black	-24
5	Gray	GND			

Approximate Dimensions

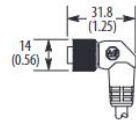
889D-F4ACDM-10

Marathon Part # 037422

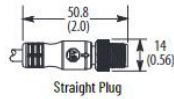
Dimensions are shown in mm (in.). Dimensions are not intended to be used for manufacturing purposes.



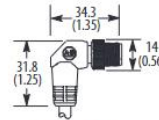
Straight Socket



Right-angle Socket



Straight Plug



Right-angle Plug



Example of Cordset



Example of Patchcord

Pinout and Color Code

Color Code	Face View Pinout							
	2-pin		3-pin		4-pin		5-pin	
								
A	1— 2— 3 Brown	4 Blue 5—	1 Brown 2— 3 Blue	4 Black 5—	1 Brown 2 White 3 Blue	4 Black 5—	1 Brown 2 White 3 Blue	4 Black 5 Gray
B	1 Brown 2— 3—	4 Blue 5—	—	—	—	—	—	—

Patchcords

889D-F8AB-10

Marathon Part # 037506

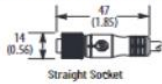
No. of Pins	Cable Type	Wire Size [AWG]	Assembly Rating	Color Code ⁽¹⁾	Cat. No. ⁽²⁾			
					Straight Socket Straight Plug	Straight Socket Right-angle Plug	Right-angle Socket Straight Plug	Right-angle Socket Right-angle Plug
3-pin	PUR	18	250V, 4 A	A	889D-F3UCDM-2	889D-F3UCDC-2	889D-R3UCDM-2	889D-R3UCDC-2
4-pin	TPC	22			889D-F4HJDM-2	889D-F4HJDC-2	889D-R4HJDM-2	889D-R4HJDC-2
	PUR	22			889D-F4HJDM-2	889D-F4HJDC-2	889D-R4HJDM-2	889D-R4HJDC-2
		18			889D-F4UCDM-2	889D-F4UCDC-2	889D-R4UCDM-2	889D-R4UCDC-2
5-pin	PUR	22			889D-F4UCDM-2	889D-F4UCDC-2	889D-R4UCDM-2	889D-R4UCDC-2
8-pin	PUR	24			889D-F5UCDM-2	889D-F5UCDC-2	889D-R5UCDM-2	889D-R5UCDC-2
8-pin	PVC shielded	24	30V AC/36V DC 1.5 A	B	889D-F8ABDM-2	889D-F8ABDC-2	889D-R8ABDM-2	889D-R8ABDC-2
					889D-F8FbDM-2	889D-F8FbDC-2	889D-R8FbDM-2	889D-R8FbDC-2

(1) See Pinout and Color Code.

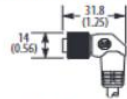
(2) The 2 at the end of the catalog number is for 2 m (6.6 ft) cable length. Replace the 2 with 0M3 (0.3 m [1 ft]), 1 (1 m [3.3 ft]), 5 (5 m [16.4 ft]), or 10 (10 m [32.8 ft]) for standard cable lengths.

Approximate Dimensions

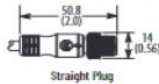
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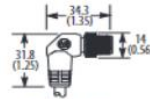
Straight Socket



Right-angle Socket



Straight Plug



Right-angle Plug



Example of Cordset



Example of Patchcord

Pinout and Color Code

Color Code	Face View Pinout					
	3-pin	4-pin	5-pin	6-pin	7-pin	8-pin
Socket	Socket		Plug		Plug	
	Socket		Plug		Plug	
A	1 Brown 2 — 3 Blue 4 Black 5 —	1 Brown 2 White 3 Blue	4 Black 5 —	1 Brown 2 White 3 Blue	4 Black 5 Gray	1 Red 2 Blue 3 Green 4 Yellow 5 Black 6 White 7 N.C. 8 Gray
B	—	—	—	—	—	1 White 2 Brown 3 Green 4 Yellow 5 Gray 6 Pink 7 Blue 8 Red

EVC003 – Wiring
ADOGH040MSS0010H04

Marathon Part # 037696

Electrical connection

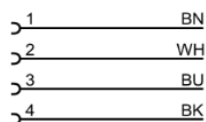
Cable: 10 m, PUR, Halogen-free, black, Ø 4.3 mm; 4 x 0.34 mm² (42 x Ø 0.1 mm)

Electrical connection - socket



Connector: 1 x M12, straight; coding: A; Locking: brass, nickel-plated;
Contacts: gold-plated, Tightening torque: 0.6...1.5 Nm

Connection



Core colours :
BK = black
BN = brown
BU = blue
WH = white

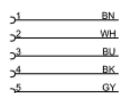
ecomat 400 Marathon Part # 037669



EVC071
ADOGH050MSS0005H05

Connection technology

Core colours
BK = black
BN = brown
BU = blue
GY = grey
WH = white



Remarks

Pack quantity [piece] 1

ilm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — GB — EVC071 — 15.06.2010

E12166 – Wiring
ADOGH080MSS0005B08

Marathon Part # 037670

Electrical connection

Cable: 5 m, PUR, black, 8 x 0.25 mm² (14 x Ø 0.15 mm)

Electrical connection - Socket



Connector: 1 x M12, straight; coding: A; Moulded body: TPU (urethane);
Locking: brass, nickel-plated; Tightening torque: 1...1.5 Nm

Connection

