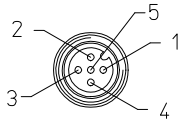
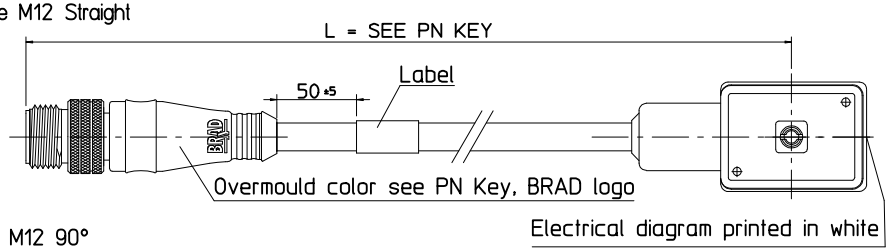
Table of lenght tolerances [mm]		
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

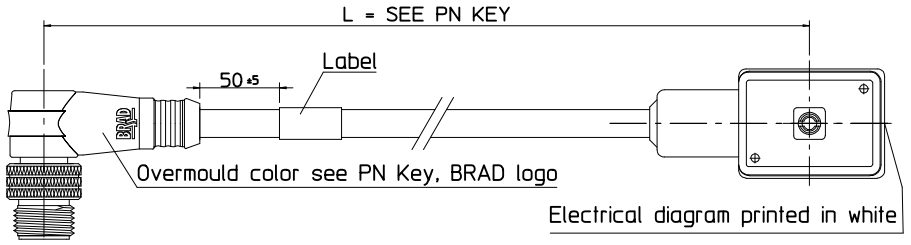
Face view



Male M12 Straight

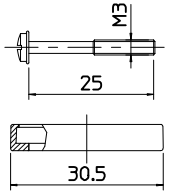


Male M12 90°

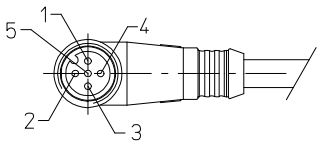


Screw & Gasket

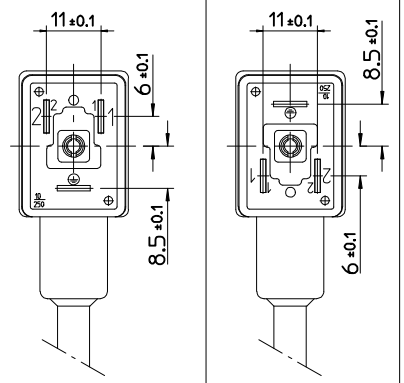
Index of protection: IP 65



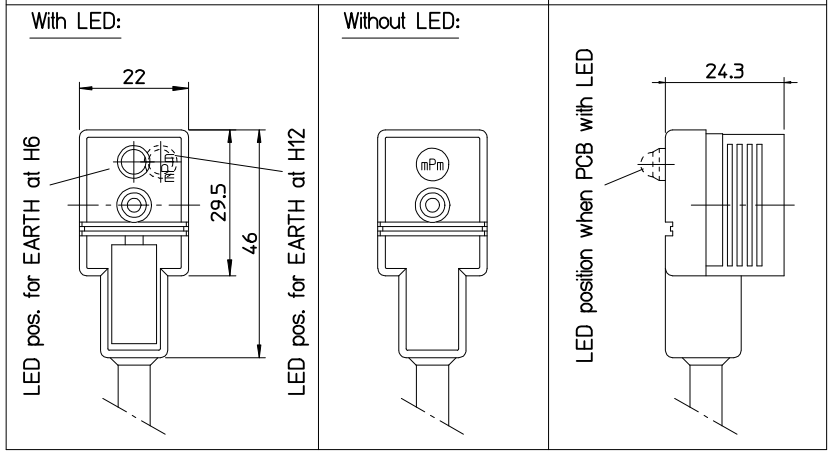
Face view



Earth position - Face View



Connector Views



PART No MATRIX - PN Key

OPTIONS

F	8	5	X	X	X	X	X	X	X	X	X	X	X	X	X

F = Form B Industrial Standard (11mm contact spacing)

8 = MMC Single Keyway

5=5 Pole

Wiring details:
0 = Positive Switching (pin 3&4)
1 = Negative Switching (pin 1&4)

Electrical configuration:
0 = Without LED/Without circuit
A = S0 24V Yellow LED
B = C4 24V Yellow LED
C = S0 110V Yellow LED
D = C4 110V Yellow LED
E = S0 24V Green LED
F = C4 24V Green LED
G = S0 110V Green LED
H = C4 110V Green LED
J = S0 24V Red LED
K = C4 24V Red LED
L = S0 110V Red LED
M = C4 110V Red LED
S = C4 230V Yellow LED

DIN Earth Position - o'clock & M12 connector body:
0 = EARTH H6, MALE Straight
1 = EARTH H12, MALE Straight
2 = EARTH H6, MALE 90°
3 = EARTH H12, MALE 90°

XXX = Cable Type

M = Metres
F = Feet

Length:
020=2 Meters
050=5 Meters
200=20 Meters

Coupling Nut Material:
Blank=Standard
1=Stainless Steel
5=Delrin
7=Teflon coat

H=I/D Carrier
M12 Overmoulding color:
Blank=Black Standard
Y=Yellow
A=Grey

ADD CABLE B31
EC NO: IPG2014-0850
DRWN: JMARSZALEK 2013/11/07
CHKD: MSZWAJKOWSKI 2013/11/07
APPR: MIWASIECZKO 2013/11/08
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2012/11/08
CHECKED BY: MSZWAJKOWSKI DATE: 2012/11/08
APPROVED BY: MIWASIECZKO DATE: 2013/11/08
MATERIAL NO.: SEE SHEET 3

TITLE
F85XXXXXXXXXX
DIN B IND + CORDSETS M12

molex

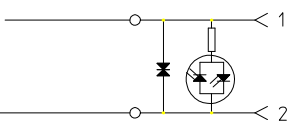
DOCUMENT NO.: SD-121036-002
SHEET NO.: 1 OF 3
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

Electrical diagrams

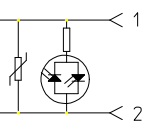
Electrical diagram with circuit S0 (zener diode) for:

CORDSET	CABLE	DIN
M12-PIN 1	N/U	S0
M12-PIN 2	N/U	
M12-PIN 4	BROWN	1
M12-PIN 3	BLUE	2
M12-PIN 5	GREEN/YELLOW OR BLACK	⏚



Electrical diagram with circuit C4 (VDR) for:

CORDSET	CABLE	DIN
M12-PIN 1	N/U	C4
M12-PIN 2	N/U	
M12-PIN 4	BROWN	1
M12-PIN 3	BLUE	2
M12-PIN 5	GREEN/YELLOW OR BLACK	⏚



Cable type

Cable Type	Jacket Material	Jacket Color	Wire cross section	Braid
A23	PVC	Black	0.75mm²	no
A58	PVC	Black	20AWG	no
B08	PUR	Yellow	18AWG	no
E03	PVC	Black	0.34mm²	no
E12	PVC	Black	0.5mm²	no
I12	CEI PVC	Grey	0.5mm²	no
P12	PUR	Black	0.5mm²	no
P82	PUR IRR	Orange	0.34mm²	no
S26	PVC	Yellow	0.34mm²	yes
B31	PUR	Black	0.5mm²	no

ADD CABLE B31
EC NO: IPG2014-0850
DRWN: JMARSZALEK 2013/11/07
CH'KD: MSZWAJKOWSKI 2013/11/07
APPR: MIWASIECZKO 2013/11/08
DESCRIPTION
REV
B

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION
DRAWN BY: JMARSZALEK DATE: 2012/11/08
CHECKED BY: MSZWAJKOWSKI DATE: 2012/11/08
APPROVED BY: MIWASIECZKO DATE: 2013/11/08
MATERIAL NO.: SEE SHEET 3
TITLE: F85XXXXXXXXXX
DIN B IND + CORDSETS M12
molex
DOCUMENT NO.: SD-121036-002
SHEET NO.: 2 OF 3
SIZE: A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

PART LIST

Pos.	Molex PN:	Engineering No.:
1	1210350196	F85000E12M050
2	1210350197	F85000E12M060
3	1210350216	F85001E12M003
4	1210350217	F85001E12M030
5	1210350286	F85000P12M006
6	1210350287	F85000P12M010
7	1210350288	F85000P12M020
8	1210350303	F85000E12M006
9	1210350312	F85000E12M030
10	1210350325	F85000E12M003
11	1210350344	F85000P12M011
12	1210350345	F85000P12M009
13	1210350346	F85000P12M012
14	1210350347	F85000P12M013
15	1210360247	F850A3P12M010
16	1210360248	F850A3P12M040
17	1210360251	F850B0I12M006
18	1210360252	F850B0I12M010
19	1210360255	F850B0P12M010
20	1210360256	F850B0P12M020
21	1210360257	F850B0P12M030
22	1210360352	F850B0P12M006
23	1210360398	F850B1P12M020
24	1210360437	F850B1E03M010
25	1210360461	F850B0P12M050
26	1210360462	F850B1P12M006
27	1210360463	F850B1P12M010
28	1210360464	F850D0P12M010
29	1210360499	F850B1P82M010
30	1210360502	F850A0A58M030
31	1210360503	F850A0A58M050
32	1210360504	F850B0A58M100
33	1210360505	F850B2P12M006
34	1210360506	F850B2P12M010
35	1210360545	F850B0E12M010
36	1210360548	F850B1E12M006
37	1210360561	F850B2E12M010
38	1210360571	F850B0P82M0107
39	1210360603	F850B0A58M020
40	1210360605	F850B0E12M020

Pos.	Molex PN:	Engineering No.:
41	1210360606	F850B1E12M010
42	1210360607	F850B1P12M003
43	1210360608	F850B1P12M008
44	1210360609	F850B1P12M070
45	1210360660	F850B0A58M006
46	1210360661	F850B0A58M015
47	1210360670	F850B3B08M050
48	1210360671	F850A0A58M100
49	1210360673	F850B0P82M015
50	1210360674	F850B0E12M050
51	1210360690	F850A0A58M005
52	1210360691	F850B0A58M010
53	1210360693	F850B0A58M030
54	1210360728	F850B0A23M010
55	1210360740	F850A3A58M050
56	1210360741	F850B1A58M100
57	1210360759	F850B0P82M005
58	1210360763	F850A0A58M070
59	1210360790	F850D0P12M006
60	1210360791	F850D0P12M020
61	1210360800	F850A0P12M006
62	1210360801	F850C0P12M006
63	1210360802	F850A0P12M010
64	1210360803	F850C0P12M010
65	1210360804	F850A0P12M020
66	1210360805	F850C0P12M020
67	1210360806	F850B1P12M0087
68	1210360809	F850B0I12M020
69	1210360810	F850B1P82M0087
70	1210360811	F850B1P82M0067
71	1210360818	F850B0I12M010Y
72	1210360820	F850B0I12M020Y
73	1210360822	F850B0P12M015
74	1210360823	F850B2P12M015
75	1210360824	F850B2P12M030
76	1210360839	F850B0P82M0067
77	1210360840	F850B0P82M0067Y
78	1210360860	F850B0P12M010H
79	1210360863	F850B1P12M015
80	1210360865	F850B0P12M020H

Pos.	Molex PN:	Engineering No.:
81	1210360901	F850B0B31M006
82	1210360902	F850B0B31M010
83	1210360903	F850B0B31M015
84	1210360904	F850B0B31M030
85	1210360905	F850B2B31M006
86	1210360906	F850B2B31M010
87	1210360907	F850B2B31M015
88	1210360908	F850B2B31M030
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Pos.	Molex PN:	Engineering No.:
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Pos.	Molex PN:	Engineering No.:
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ADD NEW PN'S
EC NO: IPG2014-0850
DRWN:JMARSZALEK 2013/11/07
CH'KD:MSZWAJKOWSKI 2013/11/07
APPR:MIWASIECZKO 2013/11/08
DESCRIPTION
B
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	± ---	± ---

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: METRIC
FIRST ANGLE PROJECTION

DRAWN BY: JMARSZALEK DATE: 2012/11/08
CHECKED BY: MSZWAJKOWSKI DATE: 2012/11/08
APPROVED BY: MIWASIECZKO DATE: 2013/11/08
MATERIAL NO.: SEE TABLE

TITLE: F85XXXXXXXXXX
DIN B IND + CORDSETS M12

molex

DOCUMENT NO.: SD-121036-002
SHEET NO.: 3 OF 3
SIZE: A3

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