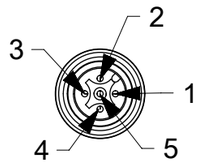
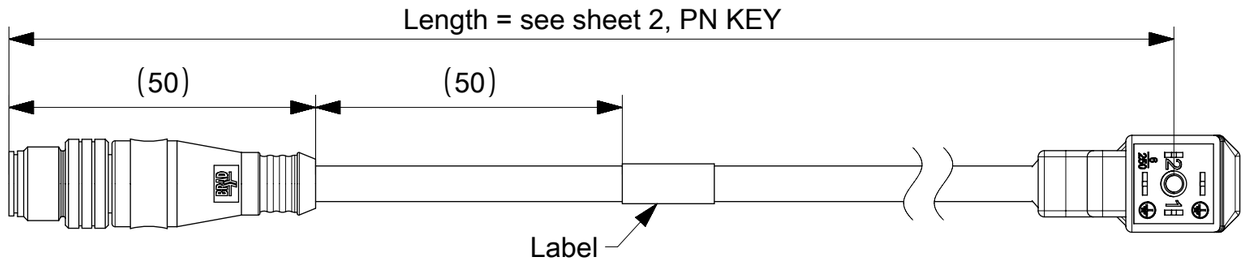
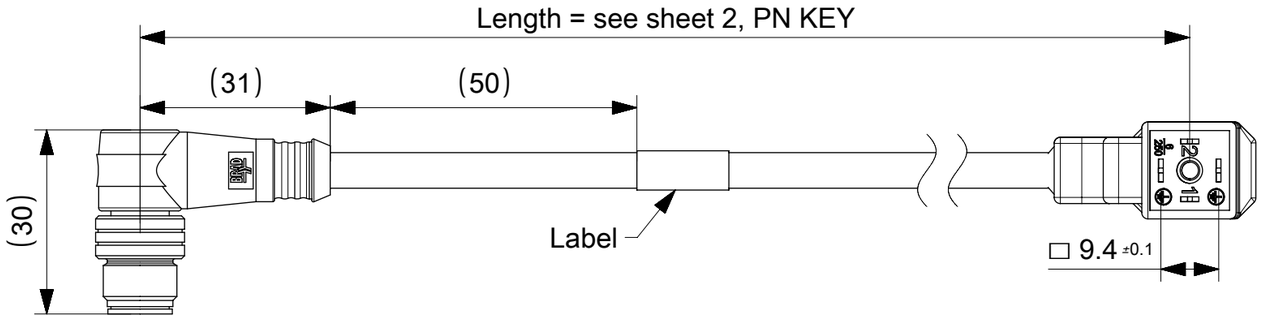


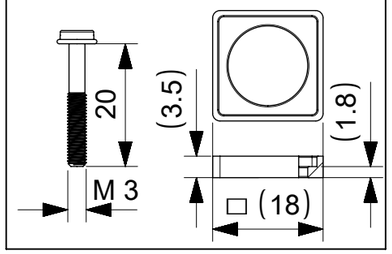


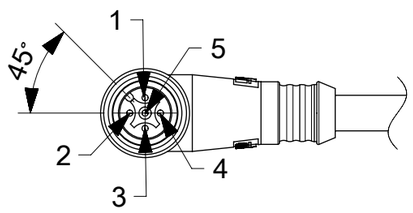
PN KEY
G850X0X...



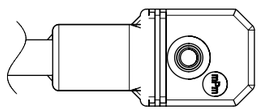
PN KEY
G850X2X...

SCREW & GASKET
Index of protection: IP65

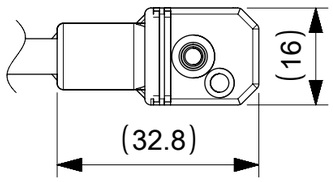


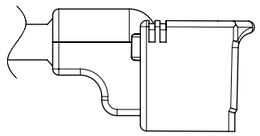


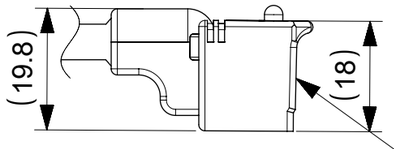
DIN Connector views for PNs without LED



DIN Connector views for PNs with LED



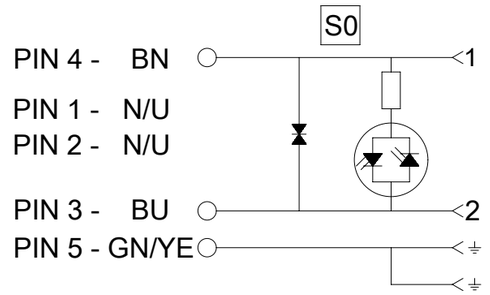




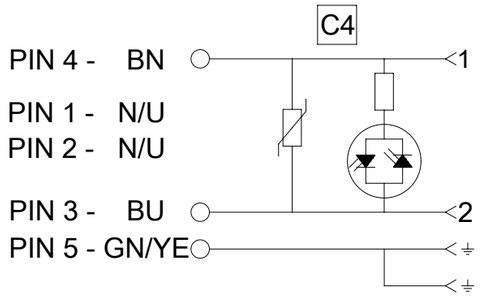
Electrical diagram & mPm logo printed in white

ELECTRICAL DIAGRAMS

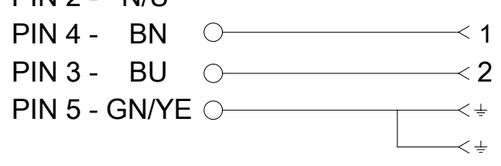
M12 DIN — S0



M12 DIN — C4



M12 DIN



BILL OF MATERIALS

ITEM	QTY.	DESCRIPTION
12	0/2	I/D CARRIER
11	0/1	PCB
10	1	GASKET
9	1	SCREW
8	4	CONTACT DIN
7	1	INSERT DIN MICRO
6	-	MOULDING MATERIAL PP
5	5	CONTACT MALE
4	1	M12 COUPLING NUT MALE
3	1	M12 INSERT 5P MALE
2	-	MOULDING MATERIAL TPU
1	-	CABLE

RELEASE STATUS	P1	RELEASE DATE	31.10.2017 07:50:26

QUALITY SYMBOLS
EA = 0
EC = 0
EP = 0
▼ = 0
C = 0
☒ = 0
■ = 0
C = 0

EC NO: 167233
DRWN: APAWLAK01 2017/10/18
CHK'D:
APPR: MIWASIECZKO 2017/10/31
REV A

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm
SCALE: 1:1
DRWN BY: APAWLAK01 DATE: 2017/10/18
CHK'D BY: DATE:
APPR BY: MIWASIECZKO DATE: 2017/10/31
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex®

G850 DIN MICRO / MMC 5P MM

PRODUCT CUSTOMER DRAWING

SERIES	MATERIAL NUMBER	CUSTOMER
121036	SEE 1210360510 PDP	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1210360510	PSD	000	1 OF 2

FORMAT: tb-prod-A3
REVISION: G
DATE: 2015/12/14

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others parts available upon request).

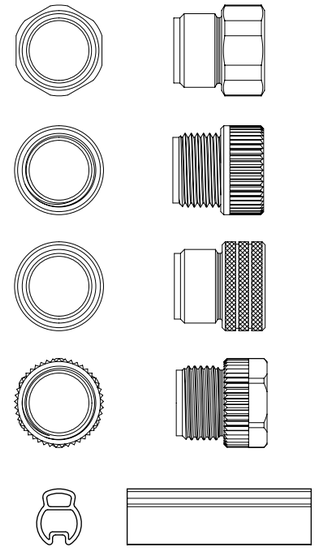
OPTIONS

G	8	5	0	X	X	X	X	X	X	X	X	X	X

- G=Form Micro (9.4mm contact spacing)
- 8=MMC M12 Connector
- 5=5 Poles
- 0=Default Standard Wiring
- Electrical configuration:
  0 = 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/H12, Male Straight
  2 = Earth H6/H12, Male Right Angle
- Cable type: See Table
- Units: M=Meter
- Length Examples:
  005=0.5 units
  010=1 units
  100=10 units
- Overmold color:
  Blank (Standard)=Black
  A=Grey / G=Black / Y=Yellow

  Coupling Nut:
  Blank (Standard)=Knurled Brass Ni Plated
  1=Hexagonal Stainless steel
  5=Knurled Derlin
  7=Knurled Brass Ni Plated, Teflon Coated
  9=Knurled / Hexagonal Brass Ni Plated

  H= 2 pcs. of I/D Carrier PVC Transparent (Cables Ixx & P82 always with 2 pcs. I/D Carrier)



CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	SHIELD
A58	3	20AWG	PVC BLACK	UL 2661	C22.2 II A 105°C/300V	-30°C to +105°C, 10xO.D.	-5°C to +105°C, 15xO.D.	-
B31	3	0.50mm²	WSOR BLACK	UL 21215	-	-	-25°C to +80°C, 7.5xO.D.	-
E03	3	0.34mm²	PVC BLACK	UL 2464	CSA C22.2	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-
E12	3	0.50mm²	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
I12	3	0.50mm²	CEI PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
P12	3	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-

Table of length 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

Notes:
1. Please see excel sheet 1210360510_PDP for currently configured part numbers.
2. Drawing is a replacement for SD-121036-003

RELEASE STATUS	P1	RELEASE DATE	31.10.2017 07:50:26

QUALITY SYMBOLS: FA = 0 / FC = 0 / FP = 0 / ▼ = 0 / C = 0 / ☒ = 0 / ■ = 0 / ▽ = 0

EC NO: 167233 | DRWN: APAWLAK01 2017/10/18 | CHK'D: | APPR: MIWASIECZKO 2017/10/31 | REV A

GENERAL TOLERANCES (UNLESS SPECIFIED)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS: mm | SCALE: 1:1
DRWN BY: APAWLAK01 DATE: 2017/10/18
CHK'D BY: DATE:
APPR BY: MIWASIECZKO DATE: 2017/10/31
DRAWING SIZE: A3 | THIRD ANGLE PROJECTION

molex®

G850 DIN MICRO / MMC 5P MM

PRODUCT CUSTOMER DRAWING

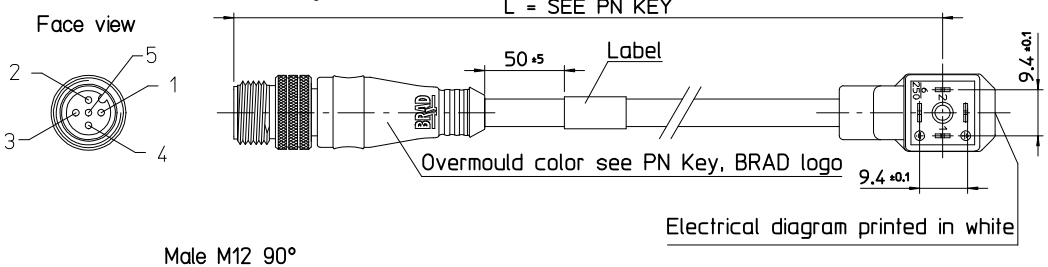
SERIES	MATERIAL NUMBER	CUSTOMER
121036	SEE 1210360510 PDP	GENERAL MARKET

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1210360510	PSD	000	2 OF 2

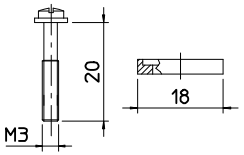
FORMAT: master-tb-prod-A3
REVISION: G
DATE: 2015/12/14

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

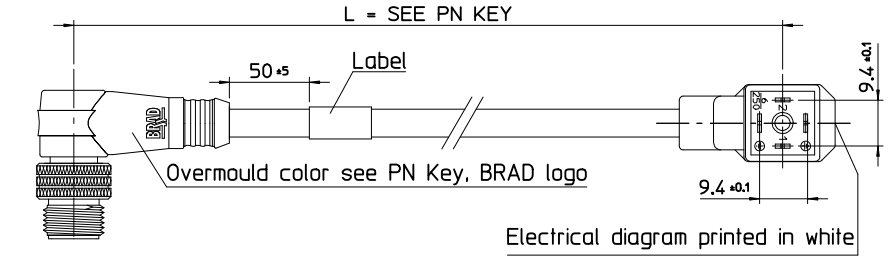
Male M12 Straight



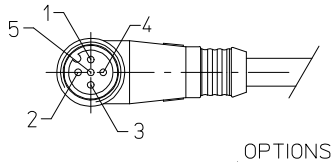
Screw & Gasket
Index of protection: IP 65



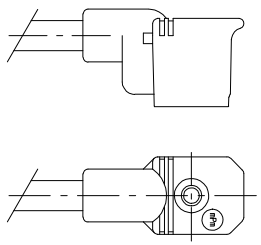
Male M12 90°



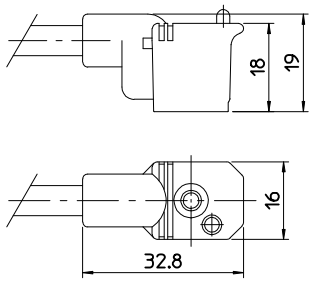
Face view



Connector view for version without led



Connector view for version with led



PART No MATRIX - PN KEY

G	8	5	X	X	X	X	X	X	X	X	X	X	X	X	X

OPTIONS

- G = Form Micro (9.4mm 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
- XXX = Cable Type
- DIN Earth Position - o'clock & M12 connector body: 0 = Earth H6/H12, MALE Straight; 2 = Earth H6/H12, MALE 90°
- 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

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

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

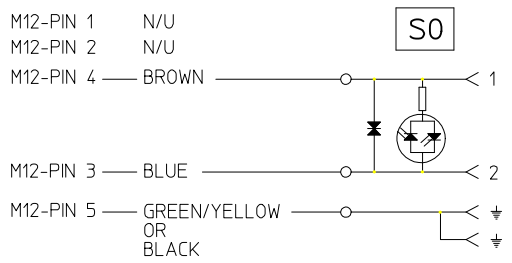
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM ONLY
SCALE	
DESIGN UNITS	METRIC
	FIRST ANGLE PROJECTION
DRAWN BY / DATE	JMARSZALEK 2012/11/20
CHECKED BY / DATE	MSZWAJKOWSKI 2012/11/20
APPROVED BY / DATE	MIWASIECZKO 2013/11/08
MATERIAL NO.	SEE SHEET 3
TITLE	G85XXXXXXXXXX DIN MICRO + CORDSETS M12
DOCUMENT NO.	SD-121036-003
SHEET NO.	1 OF 3
SIZE	A3

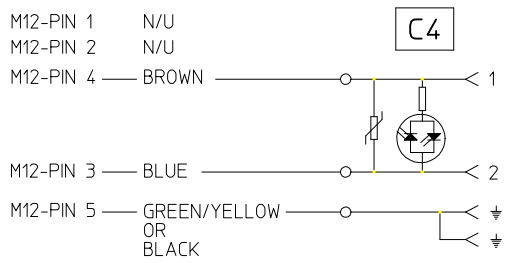
molex

Electrical diagrams

Electrical diagram with circuit S0 (zener diode) for:



Electrical diagram with circuit C4 (VDR) for:



Cable type

Cable Type	Jacket Material	Jacket Color	Wire cross section	Braid
A58	PVC	Black	20AWG	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
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
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: 2012/11/20
CHECKED BY: MSZWAJKOWSKI DATE: 2012/11/20
APPROVED BY: MIWASIECZKO DATE: 2013/11/08

TITLE: G85XXXXXXXXXX
DIN MICRO + CORDSETS M12

molex

MATERIAL NO.: SEE SHEET 3
DOCUMENT NO.: SD-121036-003
SHEET NO.: 2 OF 3
SIZE: A3

PART LIST

Pos.	Molex PN:	Engineering No.:
1	1210350160	G85000E12M006
2	1210350163	G85000E12M050
3	1210350168	G85000P12M006
4	1210350220	G85000E12M030
5	1210350221	G85002E12M003
6	1210350270	G850B2P12M030
7	1210360271	G850B0I12M003
8	1210360272	G850B0I12M006
9	1210360273	G850B0I12M010
10	1210360277	G850B0P12M010
11	1210360406	G850B0P12M006
12	1210360439	G850B0E03M005
13	1210360473	G850B0E12M003
14	1210360475	G850B0E12M010
15	1210360476	G850B0E12M020
16	1210360477	G850B0E12M030
17	1210360478	G850B0E12M040
18	1210360480	G850B0E12M050G
19	1210360481	G850B0P12M030
20	1210360482	G850B2E12M003
21	1210360508	G850A0A58M020
22	1210360509	G850B0E12M006
23	1210360510	G850B2A58M003
24	1210360511	G850B2A58M006
25	1210360573	G850A0A58M050
26	1210360621	G850B2P12M010
27	1210360649	G850B0P12M020
28	1210360695	G850A0A58M010
29	1210360752	G850B0A58M010
30	1210360766	G850B0E03M020H
31	1210360808	G850A0A58M006
32	1210360835	G850B0P12M015
33	1210360836	G850B2P12M006
34	1210360837	G850B2P12M015
35	1210360909	G850B0B31M006
36	1210360910	G850B0B31M010
37	1210360911	G850B0B31M015
38	1210360912	G850B0B31M030
39	1210360913	G850B2B31M006
40	1210360914	G850B2B31M010

Pos.	Molex PN:	Engineering No.:
41	1210360915	G850B2B31M015
42	1210360916	G850B2B31M030
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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: 2012/11/20
CHECKED BY: MSZWAJKOWSKI DATE: 2012/11/20
APPROVED BY: MIWASIECZKO DATE: 2013/11/08

TITLE: G85XXXXXXXXXX
DIN MICRO + CORDSETS M12

molex

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-121036-003
SHEET NO.: 3 OF 3
SIZE: A3