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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

Cable type:
See Table

Units:
M=Meter

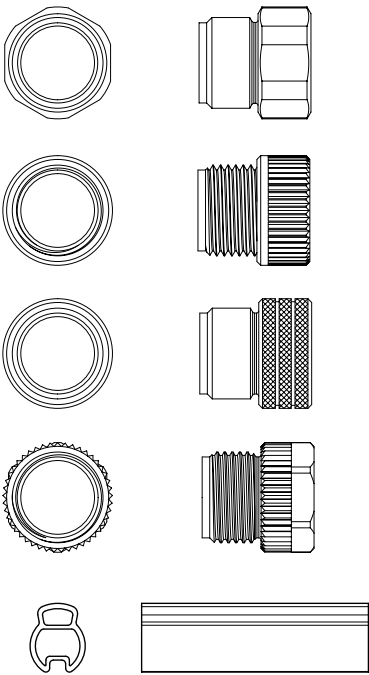
Length
Examples:
005=0.5 units
010=1 units
100=10 units

DIN Earth Position - o'clock &
M12 connector body:
0 = Earth H6/H12, Male Straight
2 = Earth H6/H12, Male Right Angle

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 lxx & 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.	-

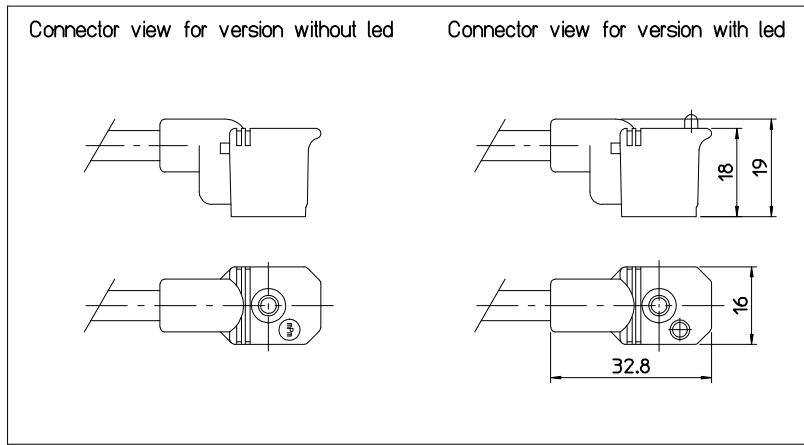
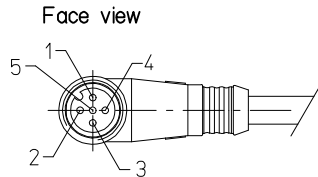
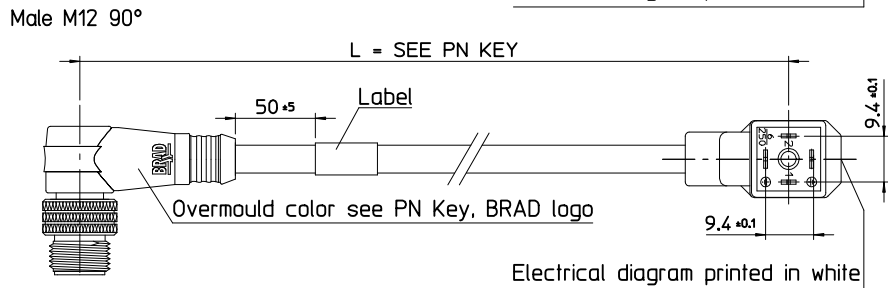
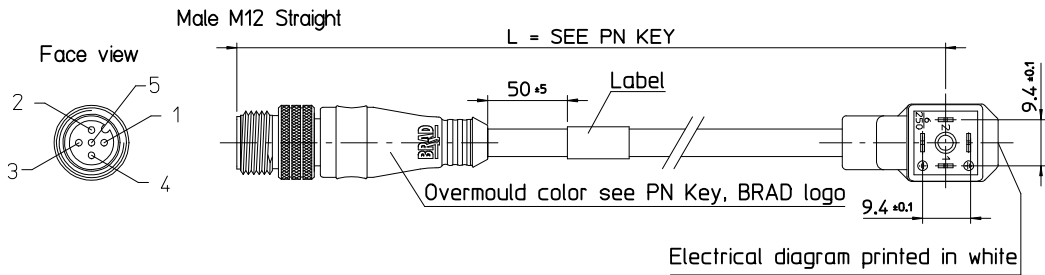
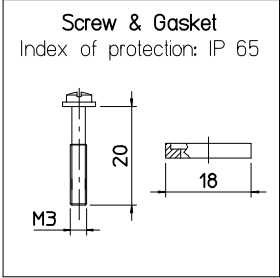
Table of length tolerances [mm]		
Over	Up to and including	Tolerance
0	1000	±20
1000	3000	±30
3000	5000	±40
5000	10000	±50
10000	15000	±100
15000	20000	±150
20000		±L/100

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

RELEASE STATUS	P1	RELEASE DATE	31.10.2017	07:50:26
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
QUALITY SYMBOLS	2017/10/18	2017/10/31	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex® G850 DIN MICRO / MMC 5P MM					
					mm		1:1							
					DRWN BY		DATE							
					APAWLAK01		2017/10/18							
					CHK'D BY		DATE							
					APPR BY		DATE		PRODUCT CUSTOMER DRAWING					
					MIWASIECZKO		2017/10/31							
					DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER		
					A3				121036	SEE 1210360510 PDP		GENERAL MARKET		
									DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER	
				1210360510		PSD	000	2 OF 2						

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



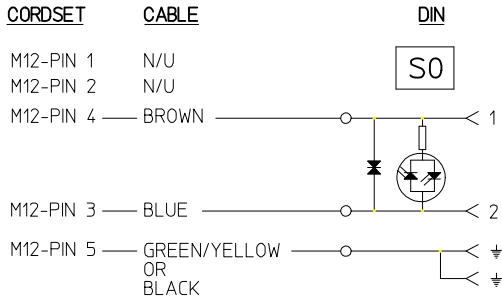
PART No MATRIX - PN KEY

G	8	5	X	X	X	X	X	X	X	X	X	X	X	X
IG = 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)		XXX = Cable Type			M = Metres F = Feet	Lengths: 020-2 Meters 050-5 Meters 200-20 Meters		H/D Carrier M12 Overmoulding color: Blank-Black Standard Y=Yellow A=Grey		Coupling Nut Material: Blank-Standard 1=Stainless Steel 5=Delrin 7=Teflon coat	
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/H12, MALE Straight 2 = Earth H6/H12, MALE 90°														

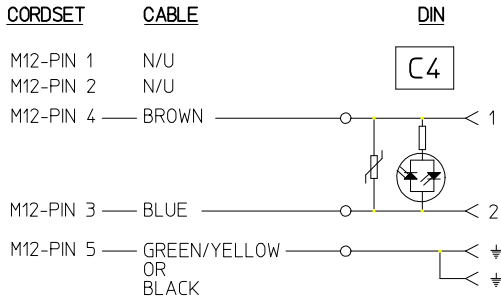
ADD CABLE B31 EC NO: IPG2014-0850 DRWN: JMARSZALEK 2013/11/07 CHKD: MSZWAJKOWSKI 2013/11/07 APPR: MIWASIECZKO 2013/11/08			DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION		
							mm	INCH	DRAWN BY DATE JMARSZALEK 2012/11/20		TITLE G85XXXXXXXXXX DIN MICRO + CORDSETS M12		
									CHECKED BY DATE MSZWAJKOWSKI 2012/11/20				
									APPROVED BY DATE MIWASIECZKO 2013/11/08		molex		
				ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 3		SD-121036-003		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:



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 CHKD: MSZWAJKOWSKI 2013/11/07 APPR: MIWASIECZKO 2013/11/08	QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION		
			mm		INCH		DRAWN BY JMARSZALEK		DATE 2012/11/20		TITLE G85XXXXXXXXXX DIN MICRO + CORDSETS M12	
			4 PLACES ± ---		± ---		CHECKED BY		DATE			
			3 PLACES ± ---		± ---		MSZWAJKOWSKI		2012/11/20			
			2 PLACES ± ---		± ---		APPROVED BY		DATE			
			1 PLACE ± ---		± ---		MIWASIECZKO		2013/11/08		molex	
			0 PLACE ± ---		± ---		MATERIAL NO.		DOCUMENT NO.			
			ANGULAR ± --- °				SEE SHEET 3		SD-121036-003			
			DRAFT WHERE APPLICABLE				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 2 OF 3	
			MUST REMAIN WITHIN DIMENSIONS									

