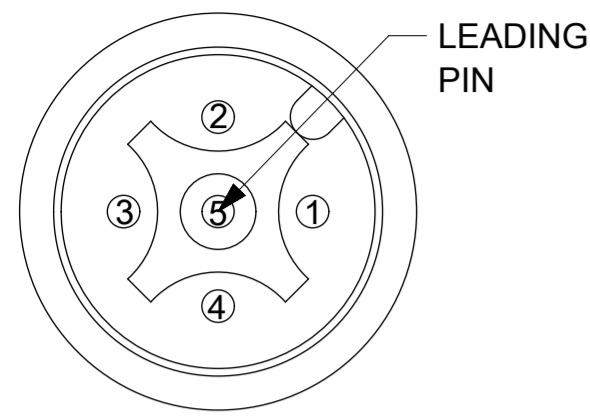


5P M12 MALE



VIEW FROM FRONT SIDE

PIN	WIRE COLOR
1	TERMINAL
2	TERMINAL
3	BLUE
4	BROWN
5	GREEN/YELLOW BLACK

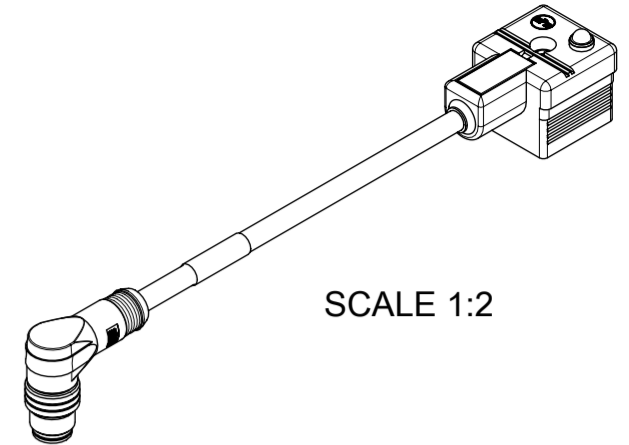
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others parts available upon request).

E 8 5 0 B 2 X X X X X X X X

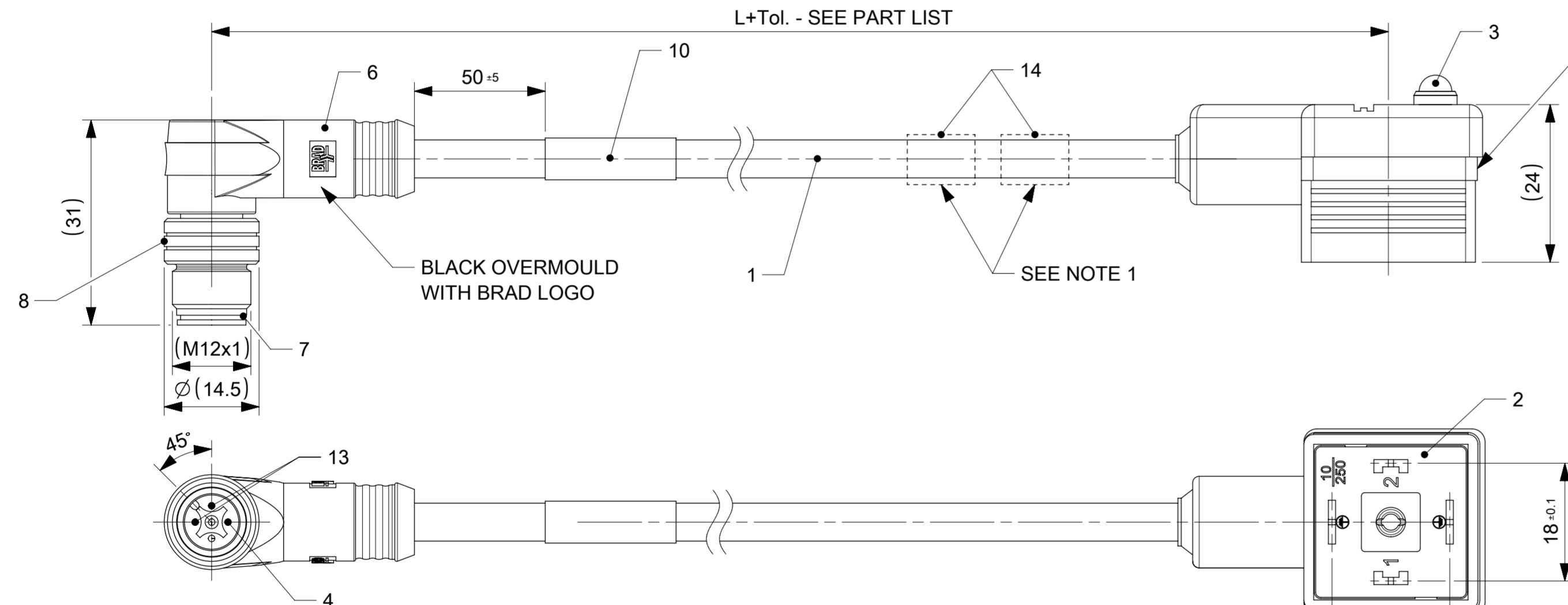
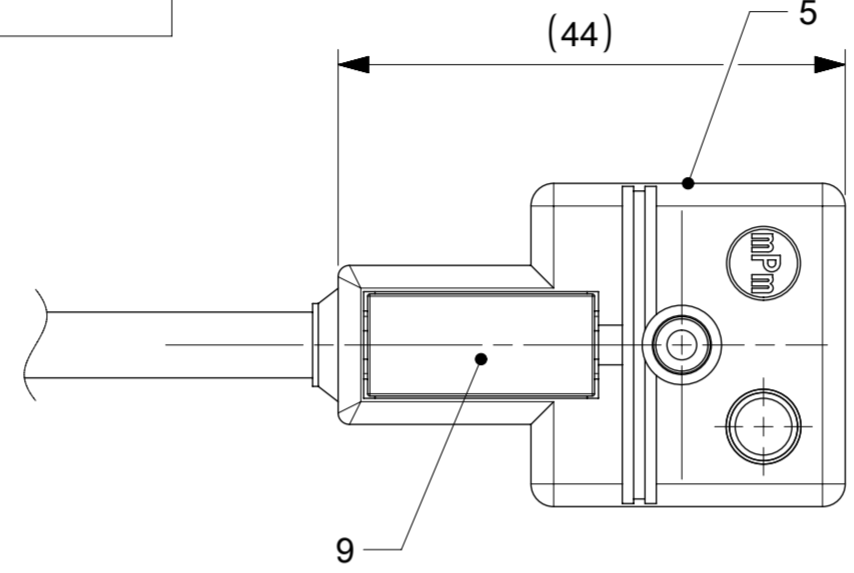
8=MMC Single Keyway
5=5 Poles
E=Form A (18mm contact spacing)
OB2 = Standard Wiring Yellow LED/VDR/24 Volts MaIr 90°
Cable type: See Table
Units: M=Meter F=Feet
Length Examples: 005=0.5 units 010=1 units 100=10 units

OPTIONS

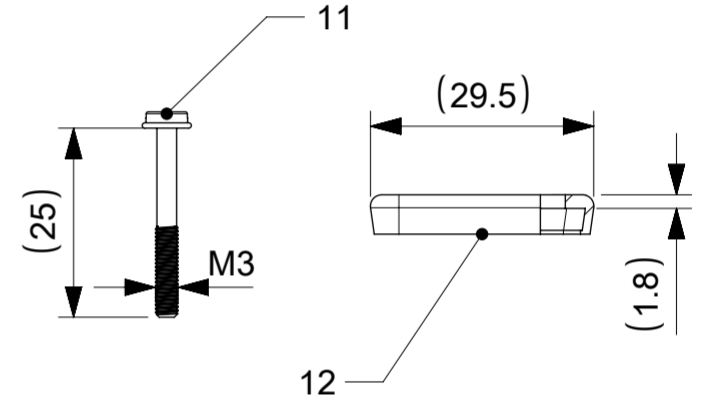
Overmold color:
Blank = Black PUR (STANDARD)
A=Grey / G=Black / Y=Yellow
Coupling Nut:
Blank = Standard
1= Stainless steel
5= Derlin
7= Teflon Coated
H= 2 pcs. of I/D Carrier PVC Transparent (Cables lxx always with 2 pcs. I/D Carrier)



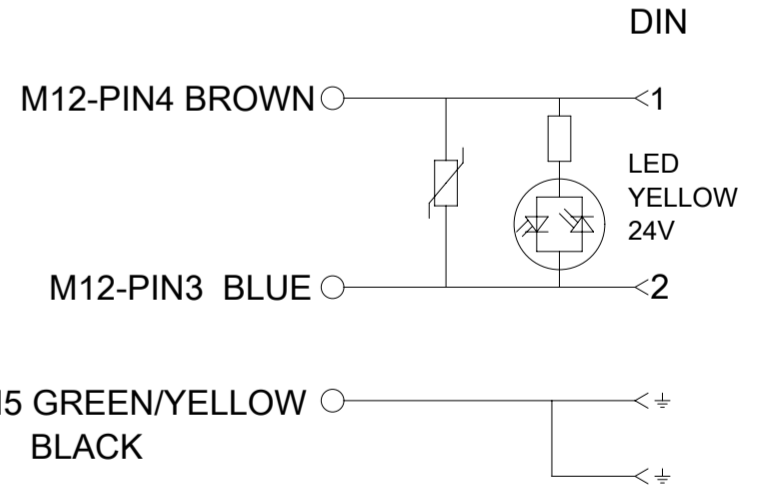
Product Specification:
Voltage: 24V
Current max: 4A
Operating Temperature: -25°C +85°C



ELECTRICAL DIAGRAM C4. PRINTED IN WHITE



ELECTRICAL DIAGRAM : C4



BOM

ITEM No.	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
1	-	CABLE	SEE CABLE LIST	SEE CABLE LIST
2	1	MOUNTED INSERT ASSEMBLY	-	BLACK
3	1	PCB WITH COMPONENT	-	-
4	3	CONTACT MALE	BRASS	SELECTIVE GOLD OVER NICKEL
5	-	DIN MOULD COMPOUND	PP	BLACK
6	1	OVERMOULD	SEE MATRIX	SEE MATRIX
7	1	MALE INSERT	PUR	BLACK
8	1	M12 MALE COUPLING NUT	BRASS	Ni-PLATED
9	1	LABEL;PLASTIC	PLASTIC	WHITE
10	1	LABEL WRAP	VINYL	YELLOW
11	1	SCREW	-	-
12	1	GASKET	NBR	BLACK
13	1	PVC LINE TER	PVC	-
14	0/2	2x ID CARRIER	-	-

CUSTOMER PRODUCT APPROVAL
APPROVED BY: _____
DATE: _____
MUST BE SIGNED AND RETURNED BEFORE PRODUCTION WILL BEGIN

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS: mm	SCALE: 1:1	CURRENT REV DESC: OBSOLETE PART NUMBERS AS PER PCN#509983
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 663026
ANGULAR TOL ± 1.0°	4 PLACES ±	DRWN: SKANDB 2021/04/08
	3 PLACES ±	CHK'D: GGA 2021/05/13
	2 PLACES ± 0.05	APPR: GGA 2021/05/13
	1 PLACE ± 0.3	INITIAL REVISION:
	0 PLACES ± 0.5	DRWN: SSM 2018/07/25
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	APPR: RSILLER 2018/07/26

DIN/MMN 5P 24V MM 90 XM XXX

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1210360210	PSD	000	A2
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER	
SEE SHEET 2	GENERAL MARKET	1 OF 2	


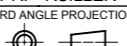
PART LIST

MOLEX P/N	ENGINEERING No.	LENGTH(mm)
1210360711	E850B2A23M005	500
1210360713	E850B2A23M007	700
1210360719	E850B2A23M017	1700
1210360720	E850B2A23M020	2000
1210360496	E850B2B08M030	3000
1210360897	E850B2B31M006	600
1210360898	E850B2B31M010	1000
1210360899	E850B2B31M015	1500
1210360900	E850B2B31M030	3000
1210360678	E850B2E12M003	300
1210360596	E850B2E12M006	600
1210360576	E850B2E12M010	1000
1210360743	E850B2I12M006	600
1210360203	E850B2I12M010	1000
1210360206	E850B2I12M050	5000
1210360853	E850B2P12M003	300
1210360457	E850B2P12M005	500
1210360208	E850B2P12M006	600
1210360209	E850B2P12M010	1000
1210360629	E850B2P12M0105	1050
1210360821	E850B2P12M015	1500
1210360210	E850B2P12M020	2000
1210360651	E850B2P12M020H	2000
1210360497	E850B2P12M025G	2500
1210360211	E850B2P12M030	3000
1210360212	E850B2P12M050	5000
1210360973	E850B2P12M058	5800

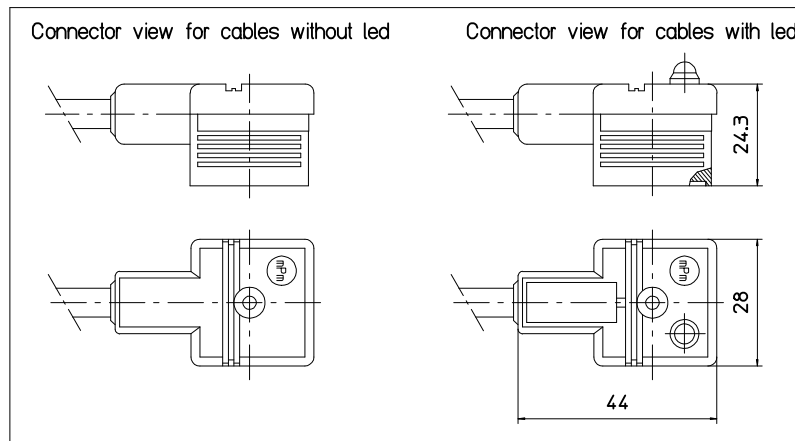
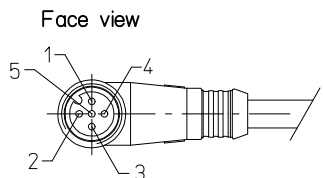
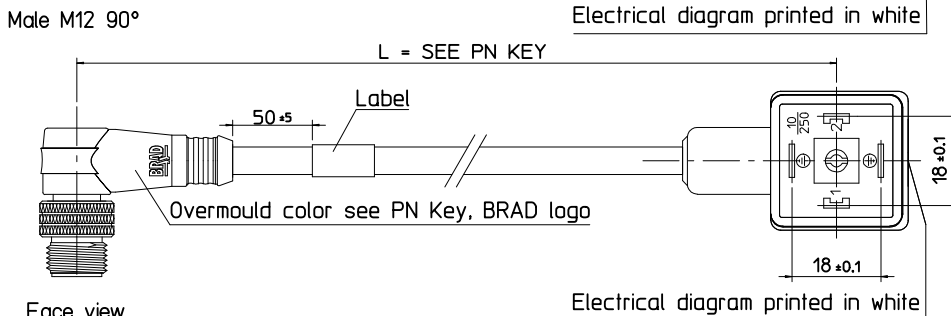
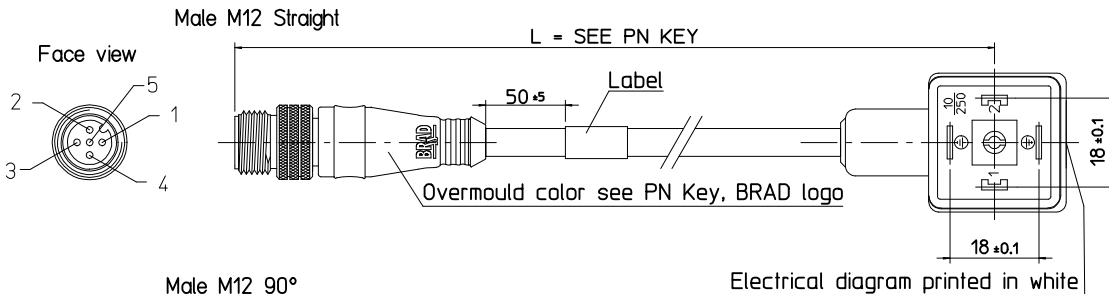
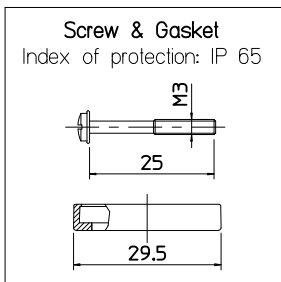
CABLE SPECIFICATION :

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	SHIELD
A23	3	0.75mm ²	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
B31	3	0.50mm ²	WSOR BLACK	UL 21215	-	-	-25°C to +80°C, 7.5xO.D.	-
E12	3	0.50mm ²	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
I12	3	0.50mm ²	CEI PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
P12	3	0.50mm ²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-

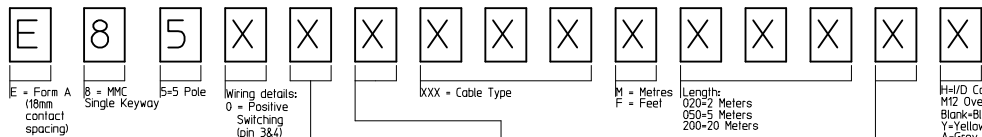
DOCUMENT STATUS	P1	RELEASE DATE	2021/05/13 12:37:18
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBERS AS PER PCN#509983							
mm	1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL	± 1.0 °	DIN/MMN 5P 24V MM 90 XM XXX							
4 PLACES	±	EC NO: 663026							
3 PLACES	±	DRWN: SKANDB 2021/04/08							
2 PLACES	± 0.05	CHK'D: GGA 2021/05/13							
1 PLACE	± 0.3	APPR: GGA 2021/05/13							
0 PLACES	± 0.5	INITIAL REVISION:							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	DOCUMENT NUMBER	DOC TYPE DOC PART REVISION
				A3-SIZE	121036	SEE PART LIST	GENERAL MARKET	1210360210	PSD 000 A2
									SHEET NUMBER
									2 OF 2

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

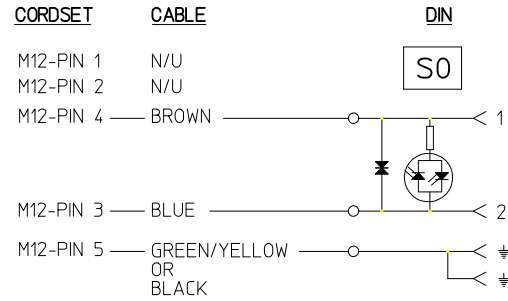


- E** = Form A (18mm contact spacing)
- 8** = MMC Single Keyway
- 5** = 5-Pole
- Wiring details:**
0 = Positive Switching (pin 3&4)
1 = Negative Switching (pin 1&4)
- Electrical configuration:**
0 = Without LED/Without circuit
A = S0 24V Yellow LED
B = C4 24V Yellow LED
C = S0 110V Yellow LED
D = C4 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
- DN** 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
- OPTIONS**
- H/D Carrier:**
H12 Overmoulding color:
Blank-Black Standard
Y=Yellow
A=Grey
- Coupling Nut Material:**
Blank-Standard
1=Stainless Steel
5=Delrin
7=Teflon coat

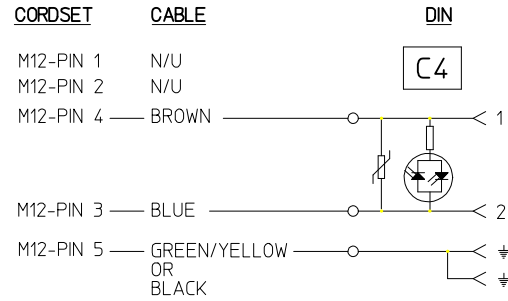
ADD CABLE B31 EC NO: IPG2014-0850 DRWN: JMARSZALEK 2013/06/20 CHKD: MSZWAJKOWSKI 2013/11/07 APPR: MIWASIECZKO 2013/11/08	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE	DESIGN UNITS	FIRST ANGLE PROJECTION	
			mm	INCH	DRAWN BY	DATE	TITLE		E85XXXXXXXXXX DIN A + CORDSETS M12
		4 PLACES	± ---	± ---	JMARSZALEK	2012/11/08			
		3 PLACES	± ---	± ---	CHECKED BY	DATE			
2 PLACES	± ---	± ---	MSZWAJKOWSKI	2012/11/08					
1 PLACE	± ---	± ---	APPROVED BY	DATE					
0 PLACE	± ---	± ---	MIWASIECZKO	2012/11/09					
		ANGULAR ±---°		MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE SHEET 3		SIZE A3		SD-121036-001		1 OF 3	
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
A23	PVC	Black	0.75mm ²	no
A58	PVC	Black	20AWG	no
B08	PUR	Yellow	18AWG	no
E03	PVC	Black	0.34mm ²	no
E12	PVC	Black	0.5mm ²	no
I12	CEI PVC	Grey	0.5mm ²	no
P12	PUR	Black	0.5mm ²	no
P82	PUR IRR	Orange	0.34mm ²	no
S26	PVC	Yellow	0.34mm ²	yes
B31	PUR	Black	0.5mm ²	no

ADD CABLE B31 EC NO: IPG2014-0850 DRWN: JMARSZALEK 2013/06/20 CHKD: MSZWAJKOWSKI 2013/11/07 APPR: MIWASIECZKO 2013/11/08	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	FIRST ANGLE PROJECTION	
	=0 =0	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- 0 PLACE ± --- ± ---	MM ONLY	1:1	METRIC		
	DESCRIPTION	ANGULAR ± --- °	DRAWN BY	DATE	TITLE		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	JMARSZALEK	2012/11/08	E85XXXXXXXXXX DIN A + CORDSETS M12		
			CHECKED BY	DATE			
		MSZWAJKOWSKI	2012/11/08	DOCUMENT NO.			
		APPROVED BY	DATE	SD-121036-001			
		MIWASIECZKO	2012/11/09	SHEET NO.			
		MATERIAL NO.	SEE SHEET 3	2 OF 3			
		SIZE	A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

10	9	8	7	6	5	4	3	2	1		
PART LIST											
Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:	Pos.	Molex PN:	Engineering No.:
1	1210350133	E85000P12M006	41	1210360356	E850B0P12M030	81	1210360678	E850B2E12M003	121	1210360893	E850B0B31M006
2	1210350148	E85000P12M020	42	1210360399	E850B0P12M003	82	1210360686	E850A2A58M010	122	1210360894	E850B0B31M010
3	1210350156	E85000P12M010	43	1210360453	E850B0P12M012	83	1210360694	E850A0A58M006	123	1210360895	E850B0B31M015
4	1210350157	E85000P12M030	44	1210360454	E850B0P12M013	84	1210360696	E85002E12M003	124	1210360896	E850B0B31M030
5	1210350201	E85000E12M010	45	1210360455	E850B0P12M014	85	1210360708	E850B0A23M030	125	1210360897	E850B2B31M006
6	1210350202	E85002P12M015	46	1210360456	E850B0P12M017	86	1210360719	E850B2A23M017	126	1210360898	E850B2B31M010
7	1210350207	E85000E12M003	47	1210360457	E850B2P12M005	87	1210360725	E850D0A23M030	127	1210360899	E850B2B31M015
8	1210350208	E85000E12M006	48	1210360458	E850D0P12M010	88	1210360743	E850B2I12M006	128	1210360900	E850B2B31M030
9	1210350209	E85000P12M003	49	1210360491	E850A0A58M010	89	1210360745	E850B0I12M006	129	1210361900	E850B0A23M015
10	1210350210	E85000P82M030	50	1210360492	E850A0A58M015	90	1210360754	E850A0A58M005	130		
11	1210350242	E85002E12M006	51	1210360493	E850A0A58M030	91	1210360756	E85002E12M030	131		
12	1210350290	E85000E12M030	52	1210360494	E850A0A58M050	92	1210360771	E850A0P12M030	132		
13	1210350291	E85000E12M050	53	1210360495	E850A0A58M100	93	1210360772	E850A0P12M040	133		
14	1210350292	E85000P12M100	54	1210360496	E850B2B08M030	94	1210360773	E850A0P12M100	134		
15	1210350309	E85002A23M020	55	1210360497	E850B2P12M025G	95	1210360774	E850A2P12M010	135		
16	1210350310	E85002A23M030	56	1210360542	E850B0E12M0155	96	1210360775	E850A2P12M015	136		
17	1210350311	E85002A23M040	57	1210360557	E850B0E12M006	97	1210360776	E850A2P12M020	137		
18	1210350313	E85000P12M017	58	1210360558	E850B0E12M030	98	1210360788	E850D0P12M006	138		
19	1210350326	E85000P12M050	59	1210360559	E850B0E12M050	99	1210360789	E850D0P12M020	139		
20	1210350339	E85002P12M020	60	1210360560	E850B0P12M0201	100	1210360795	E850A0P12M006	140		
21	1210350348	E85000P12M015	61	1210360574	E850B0E12M020	101	1210360796	E850C0P12M006	141		
22	1210350349	E85000P12M009	62	1210360576	E850B2E12M010	102	1210360797	E850A0P12M010	142		
23	1210360178	E850A0P12M020	63	1210360585	E850A0A58M020	103	1210360798	E850C0P12M010	143		
24	1210360184	E850B0I12M010	64	1210360586	E850B0A58M020	104	1210360799	E850C0P12M020	144		
25	1210360186	E850B0I12M020	65	1210360588	E850B0B08M003	105	1210360813	E850A0A58M007	145		
26	1210360187	E850B0I12M030	66	1210360589	E850B0B08M010	106	1210360815	E850B0I12M010Y	146		
27	1210360192	E850B0P12M006	67	1210360590	E850B0B08M020	107	1210360816	E850B0I12M020Y	147		
28	1210360193	E850B0P12M010	68	1210360593	E850B0P12M040	108	1210360817	E850B0I12M030Y	148		
29	1210360194	E850B0P12M015	69	1210360594	E850B0P12M100	109	1210360819	E850B0I12M006Y	149		
30	1210360195	E850B0P12M020	70	1210360595	E850B0S26M010H	110	1210360821	E850B2P12M015	150		
31	1210360196	E850B0P12M050	71	1210360596	E850B2E12M006	111	1210360844	E850B0P12M021	151		
32	1210360198	E850B0S26M015	72	1210360601	E850K0E12M010	112	1210360845	E850B0P12M024	152		
33	1210360199	E850B0S26M020	73	1210360627	E850B0E12M010	113	1210360846	E850B0P12M027	153		
34	1210360203	E850B2I12M010	74	1210360628	E850B0S26M015H	114	1210360847	E850B0P12M058	154		
35	1210360206	E850B2I12M050	75	1210360629	E850B2P12M0105	115	1210360848	E850B0P12M080	155		
36	1210360208	E850B2P12M006	76	1210360651	E850B2P12M020H	116	1210360849	E850B0P12M085	156		
37	1210360209	E850B2P12M010	77	1210360658	E850B0A58M006	117	1210360850	E850B0P12M090	157		
38	1210360210	E850B2P12M020	78	1210360659	E850B0A58M015	118	1210360853	E850B2P12M003	158		
39	1210360211	E850B2P12M030	79	1210360667	E850A0A58M070	119	1210360857	E850B0P12M010H	159		
40	1210360212	E850B2P12M050	80	1210360675	E850C0A58M100	120	1210360858	E850B0P12M020H	160		

ADD NEW PN EC NO: IPG2014-0850 DRWN: JMARSZALEK 2013/06/20 CHKD: MSZWAJKOWSKI 2013/11/07 APPR: MIWASIECZKO 2013/11/08	DESCRIPTION REV	QUALITY SYMBOLS  = 0  = 0.1	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE 1:1	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION																																				
		<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>0 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	0 PLACE	± ---	± ---	<table border="1"> <tr> <th>DRAWN BY</th> <th>DATE</th> <th>TITLE</th> </tr> <tr> <td>JMARSZALEK</td> <td>2012/11/08</td> <td>E85XXXXXXXXXX DIN A + CORDSETS M12</td> </tr> <tr> <th>CHECKED BY</th> <th>DATE</th> <th></th> </tr> <tr> <td>MSZWAJKOWSKI</td> <td>2012/11/08</td> <td></td> </tr> <tr> <th>APPROVED BY</th> <th>DATE</th> <th></th> </tr> <tr> <td>MIWASIECZKO</td> <td>2012/11/09</td> <td></td> </tr> </table>	DRAWN BY	DATE	TITLE	JMARSZALEK	2012/11/08	E85XXXXXXXXXX DIN A + CORDSETS M12	CHECKED BY	DATE		MSZWAJKOWSKI	2012/11/08		APPROVED BY	DATE		MIWASIECZKO	2012/11/09					
			mm	INCH																																							
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