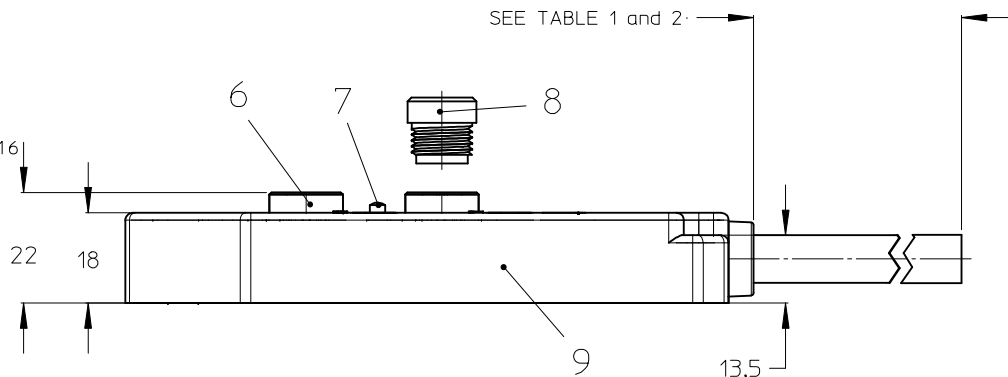
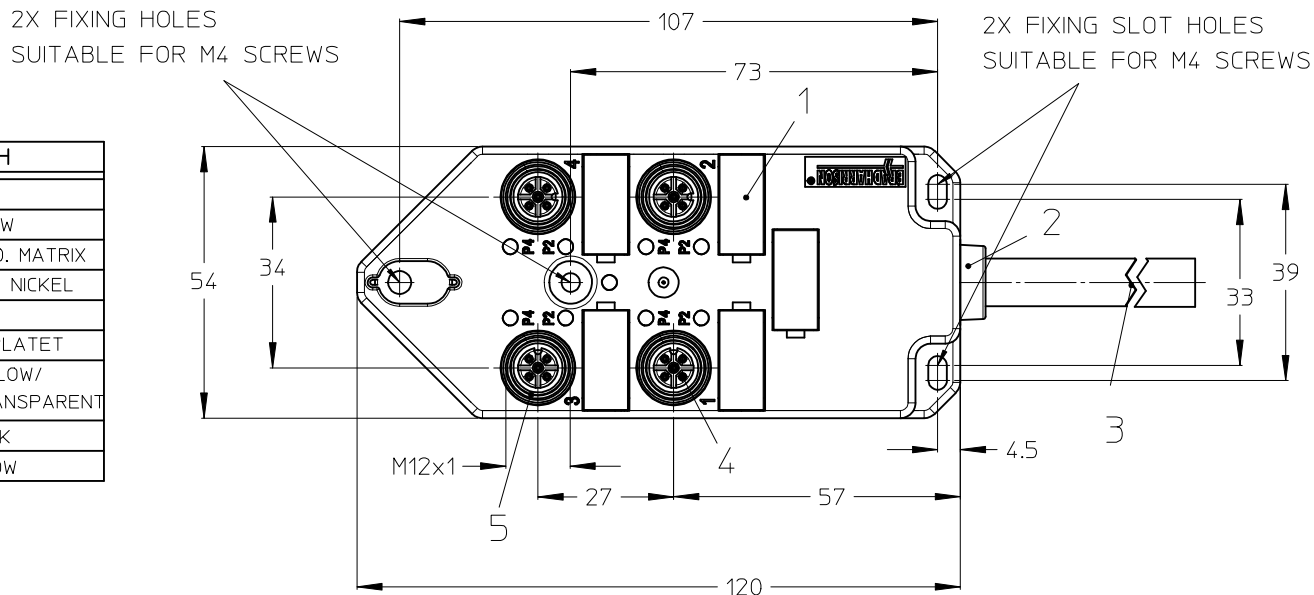
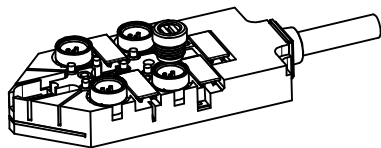


TABLE 1 BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH
1	5	LABEL	ABS	WHITE
2	1	CABLE PLATE	PBT	YELLOW
3	1	CABLE	SEE ENG. NO. MATRIX	SEE ENG. NO. MATRIX
4	20	CONTACT	BRASS	GOLD OVER NICKEL
5	4	O-RING	FPM	RED
6	4	SHELL	BRASS	NICKEL PLATET
7	9	LED	NON LED = PBT/ WITH LED = PA	NON LED=YELLOW/ WITH LED=TRANSPARENT
8	2	PROTECTING CAP	PP	BLACK
9	1	HOUSING	PBT	YELLOW

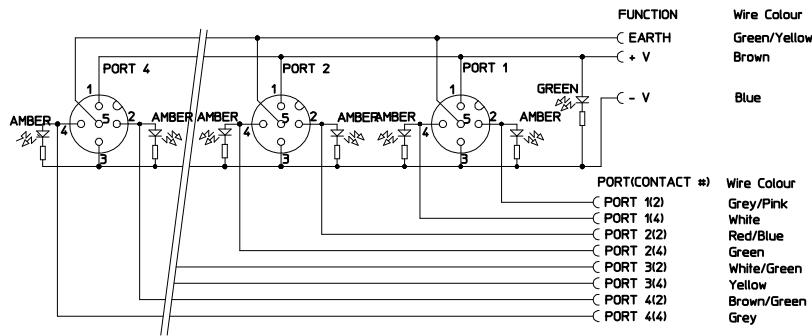
GENERAL CHARACTERISTICS

NOMINAL VOLTAGE:	10-30 V DC
POLUTION DEGREE:	3
RATED CURRENT:	4 A PER PORT / 12 A MAX: TOTAL
CONTACT RESISTANCE:	≤ 5 mOHM
ISULATION RESISTANCE:	> 10 ⁹ OHM
IP DEGREE OF PROTECTION:	IP 67
	IP 68 REFER TO TEST SUMMARY TS-120005-016
TEMPERATURE RANGE:	-25°C to + 85°C
(BOX ONLY)	
FLAMMABYLITY:	
Insert:	V0
HOUSING:	V0
POTTING MATERIAL:	V0

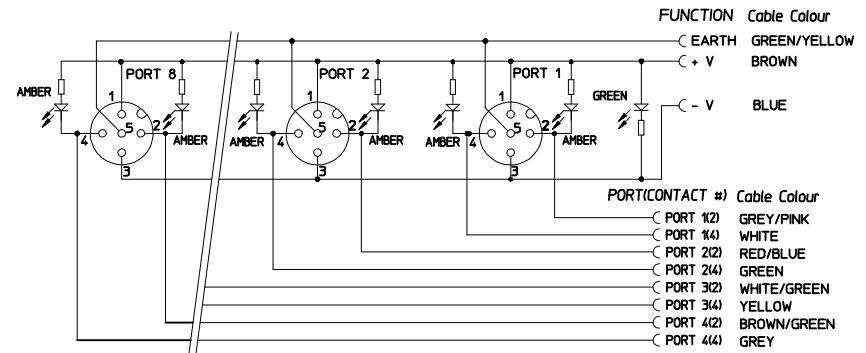


ENTER DESCRIPTION EC NO: IPG2014-0267 DRAWN:ULETTEMEIER 2013/09/24 CHKD:RSILLER 2013/09/25 APPR:CBURGER 2013/10/07		DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
B	REV				mm	INCH	DRAWN BY	DATE	TITLE MPIS M12 PNP NPN NOS 5P 4PT AC FE STR XM		
				4 PLACES	± ---	± ---	ULETTEMEIER	2013/07/02			
				3 PLACES	± ---	± ---	CHECKED BY	DATE	DOCUMENT NO. SD-120114-093		SHEET NO. 1 OF 3
				2 PLACES	± 0.05	± ---	RSILLER	2013/07/10			
				1 PLACE	± 0.10	± ---	APPROVED BY	DATE			
			0 PLACE	± ---	± ---	CBURGER	2013/07/17	molex			
				ANGULAR ± .5 °		MATERIAL NO.					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE 2					
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

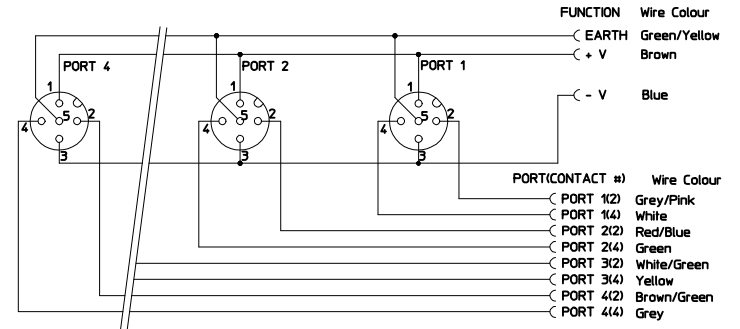
WIRING DIAGRAM DUAL PORT PNP



WIRING DIAGRAM DUAL PORT NPN



WIRING DIAGRAM DUAL PORT NON LED



ENTER DESCRIPTION EC NO: IPG2014-0267 DR:WUETTENMEIER 2013/09/24 CHK:DRSILLER 2013/09/25 APPR:CBURGER 2013/10/07	DESCRIPTION	QUALITY SYMBOLS ▽=0 ∇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY DATE	TITLE MPIS M12 PNP NPN NOS 5P 4PT AC FE STR XM				
			4 PLACES	± ---	± ---	ULETTENMEIER 2013/07/02					
			3 PLACES	± ---	± ---	CHECKED BY DATE					
			2 PLACES	± 0.05	± ---	RSILLER 2013/07/10					
			1 PLACE	± 0.10	± ---	APPROVED BY DATE					
			0 PLACE	± ---	± ---	CBURGER 2013/07/17					
			ANGULAR ± .5 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE 2		SD-120114-093			2 OF 3
						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

TABLE 2

MOLEX P/N	ENG. NO.	LED
1200550604	BTY405P-FBE-10	YES
1200550671	BTY405P-FBI-10	YES
1200550696	BTY405P-FBI-15	YES
1200550737	BTY405P-FBE-20	YES
1200550911	BTY405P-FBP-30	YES
1201140037	BTY405N-FBP-05	YES
1201140038	BTY405N-FBP-10	YES
1201140039	BTY405P-FBP-05	YES
1201140040	BTY405P-FBP-10	YES
1201140041	BTY405P-FBP-15	YES
1201140042	BTY4050-FBP-05	NO
1201140043	BTY4050-FBP-10	NO
1201140044	BTY4050-FBP-15	NO
1201140186	BTY405N-FBP-25	YES

MOLEX P/N	ENG. NO.	LED
1201140187	BTY405P-FBE-05	YES
1201140188	BTY405P-FBP-20	YES
1201140189	BTY4050-FBE-05	NO
1201145036	BTY405P-FBP-05WE	YES
1201145037	BTY405P-FBP-10WE	YES
1201148028	BTY405P-FBP-15-1	YES

ENG. NO. MATRIX:

B	T	Y	4	0	0	X	-	F	B	X	-	X	X	-	X
B=BRAD	T=TOP MOUNT	Y=YELLOW	4=4 PORT	VERSION: 00-SINGLE PORT 05-DUAL PORT		P=PNP N=NPN 0=NO LED		F=FEMALE	B=BRASS	CABLE SEE TABLE 3		XX=CABLE LENGHT EXAMPLE: 05=5 METER 10=10 METER			S=SHIELDED 1-UL/CSA PUR CABLE

TABLE 3

CABLE	TEM. RANGE STATISCH	TEM. RANGE FLEXIBLE	CABLE DIAMETER (MM) SIGLE (4POLE) 4/6/8 PORT	CABLE DIAMETER (MM) DUAL (5POLE) 4/6/8 PORT	DRAQ CHAIN	UL STYLE
P=PUR/PVC/Black	-30°C TO +90°C	-5°C TO +90°C	8,4 ± 0,2 / 9,5 ± 0,2 / 9,5 ± 0,2	9,5 ± 0,2 / 9,8 ± 0,2 / 11,4 ± 0,2	1,5 MIO. CYCLES	-
P=PUR/PVC/Black/UL/CSA	-25°C TO +90°C	-	7,5 ± 0,2	8,6 ± 0,2	-	-
N=PVC/GREY	-	-10°C TO +80°C	8,4 ± 0,2	9,5 ± 0,2	10 MIO. CYCLES	2464
I=CEI/GREY	-5°C TO +70°C	-	8,4 ± 0,2	9,5 ± 0,2	-	-
E=PVC/YELLOW	-5°C TO +70°C	-	8,4 ± 0,2	9,5 ± 0,2	-	-

ENTER DESCRIPTION EC NO: IPG2014-0267 DRAWN:ULETTE/MEIER 2013/09/24 CHKD:RSILLER 2013/09/25 APPR:CBURGER 2013/10/07	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY DATE		TITLE				
			4 PLACES	± ---	± ---	ULETTE/MEIER 2013/07/02		MPIS M12 PNP NPN NOS 5P 4PT AC FE STR XM				
			3 PLACES	± ---	± ---	CHECKED BY DATE						
			2 PLACES	± 0.05	± ---	RSILLER 2013/07/10						
			1 PLACE	± 0.10	± ---	APPROVED BY DATE						
			0 PLACE	± ---	± ---	CBURGER 2013/07/17		molex				
			ANGULAR ± .5 °			MATERIAL NO.		DOCUMENT NO.			SHEET NO.	
			DRAFT WHERE APPLICABLE			SEE TABLE 2		SD-120114-093			3 OF 3	
			MUST REMAIN WITHIN DIMENSIONS			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						