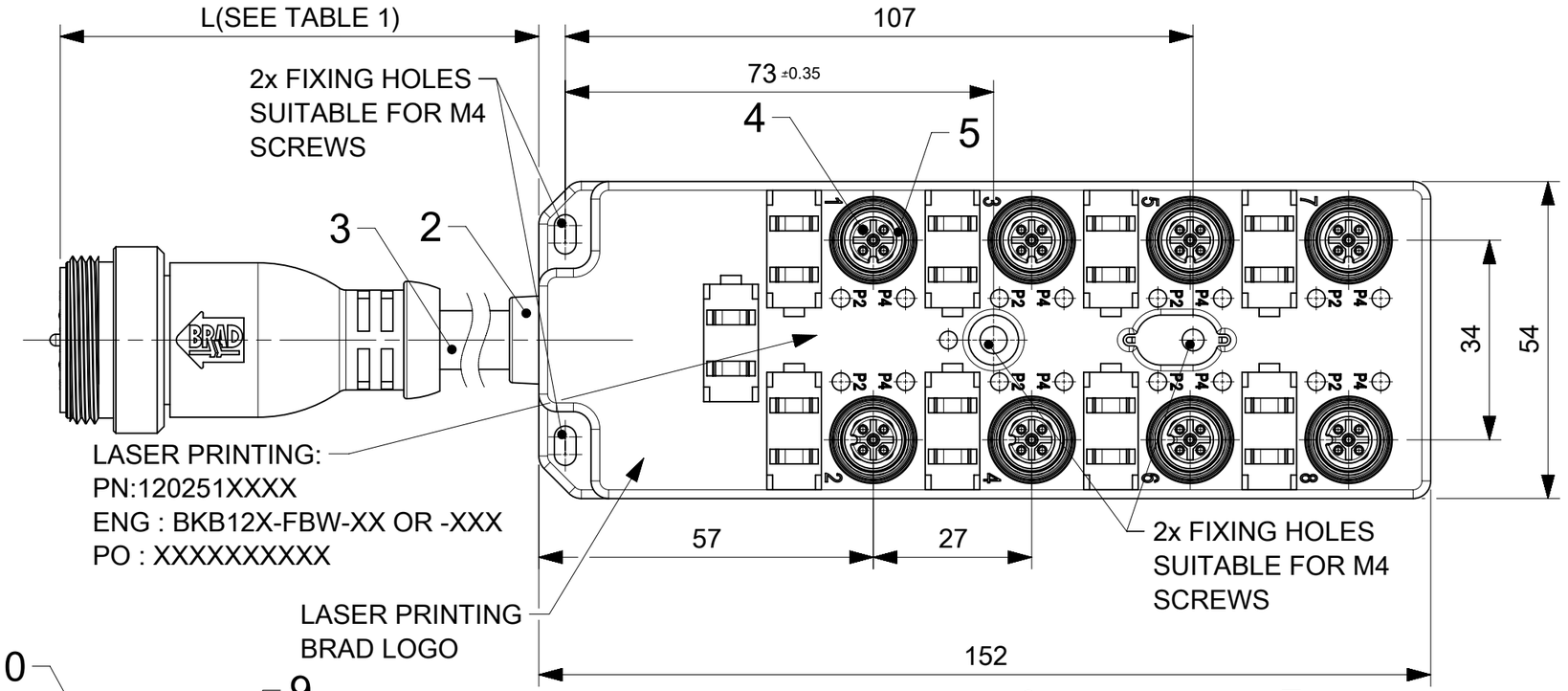
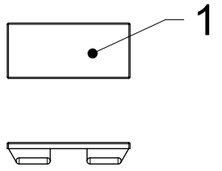
TABLE 1

MOLEX P/N	ENG. NO.	CABLE LENGTH (mm)	LED
1202510097	BKB8120-FBW-003	300	NO
1202510098	BKB8120-FBW-01	1000	NO
1202510099	BKB8120-FBW-050	5000	NO
1202510100	BKB8120-FBW-10	10000	NO
1202510101	BKB812N-FBW-003	300	YES
1202510102	BKB812N-FBW-01	1000	YES
1202510103	BKB812N-FBW-05	5000	YES
1202510104	BKB812N-FBW-10	10000	YES
1202510105	BKB812P-FBW-003	300	YES
1202510106	BKB812P-FBW-01	1000	YES
1202510107	BKB812P-FBW-05	5000	YES
1202510108	BKB812P-FBW-10	10000	YES



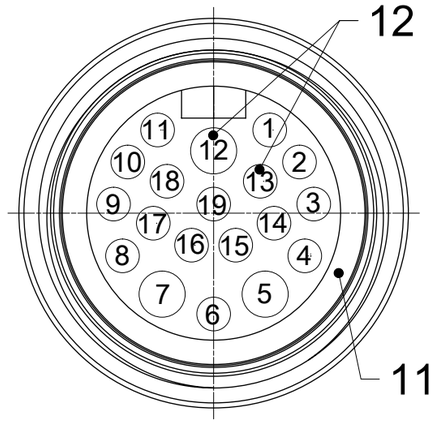
LABEL
9x packed in a bag.



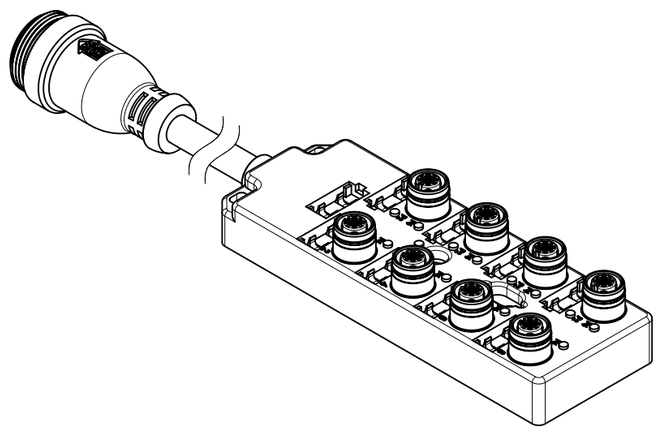
WIRING DIAGRAM

PIN	COLOR
1	VIOLET
2	RED
3	GREY
4	RED/BLUE
5	BLUE
6	GREEN
7	BROWN
8	WHITE/GREEN
9	WHITE/YELLOW
10	WHITE/GREY
11	BLACK
12	YELLOW/GREEN
13	YELLOW/BROWN
14	BROWN/GREEN
15	WHITE
16	YELLOW
17	PINK
18	GREY/BROWN
19	GREY/PINK

19 POLE MALE FACE VIEW



SCALE 2:1



GENERAL CHARACTERISTICS:

ELECTRICAL AND MECHANICAL DATA ACC. TO IEC 61076-2-101

NOMINAL VOLTAGE:	10-30 V DC
AMPERE RATING:	4 A PER PORT / 12 A MAX
AMPERE RATING WITH UL REGISTRATION:	3 A PER PORT / 9 A MAX
IP DEGREE OF PROTECTION:	IP 67
TEMPERATURE RANGE:	-25°C to + 85°C

SYMBOLS	DIMENSION UNITS	SCALE
F = 0	mm	1:1
E = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
F = 0	ANGULAR TOL ± 1.0 °	
S = 0	4 PLACES ±	
▼ = 0	3 PLACES ±	
C = 0	2 PLACES ± 0.05	
☒ = 0	1 PLACE ± 0.3	
■ = 0	0 PLACES ± 0.5	
= 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

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CURRENT REV DESC: INITIAL RELEASE

EC NO: 631635
DRWN: MDHARMANTI 2020/01/28
CHK'D: RSILLER 2020/02/05
APPR: RSILLER 2020/02/05

INITIAL REVISION:
DRWN: SSM 2019/01/11
APPR: RSILLER 2020/01/17

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120251

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MPIS U12 NOS 5P 8PT 0.3M MC 19P BK

PRODUCT CUSTOMER DRAWING

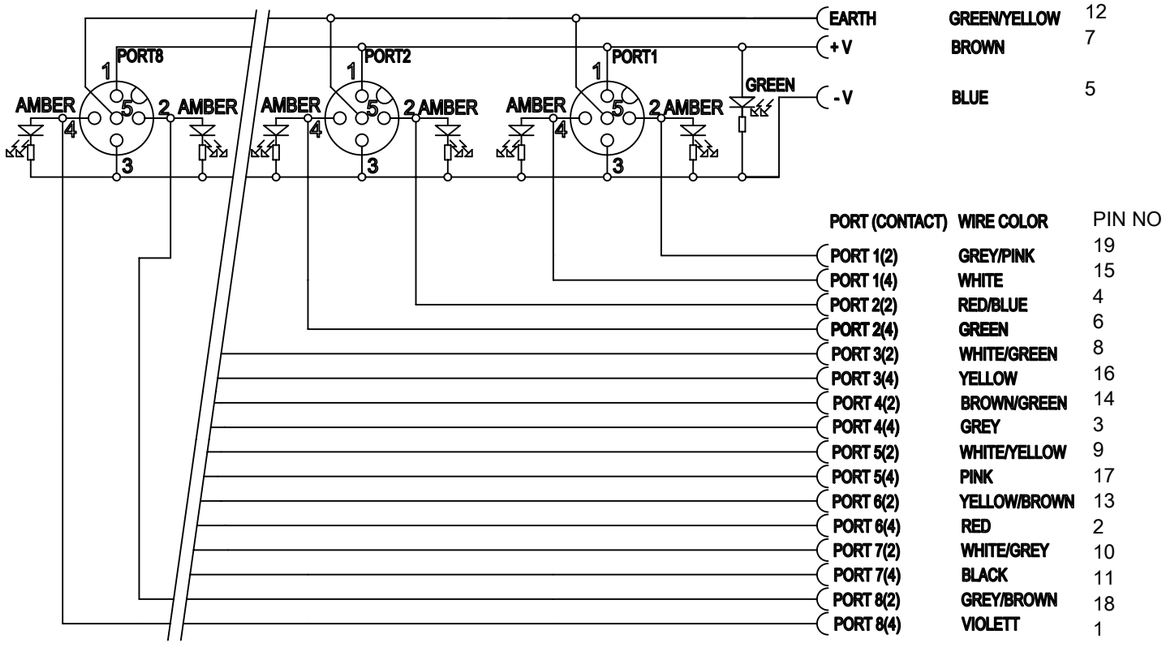
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1202510097	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1	GENERAL MARKET	1 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2020/02/05 10:52:05

FORMAT: master-tb-prod-A3
REVISION: H
DATE: 2018/01/18

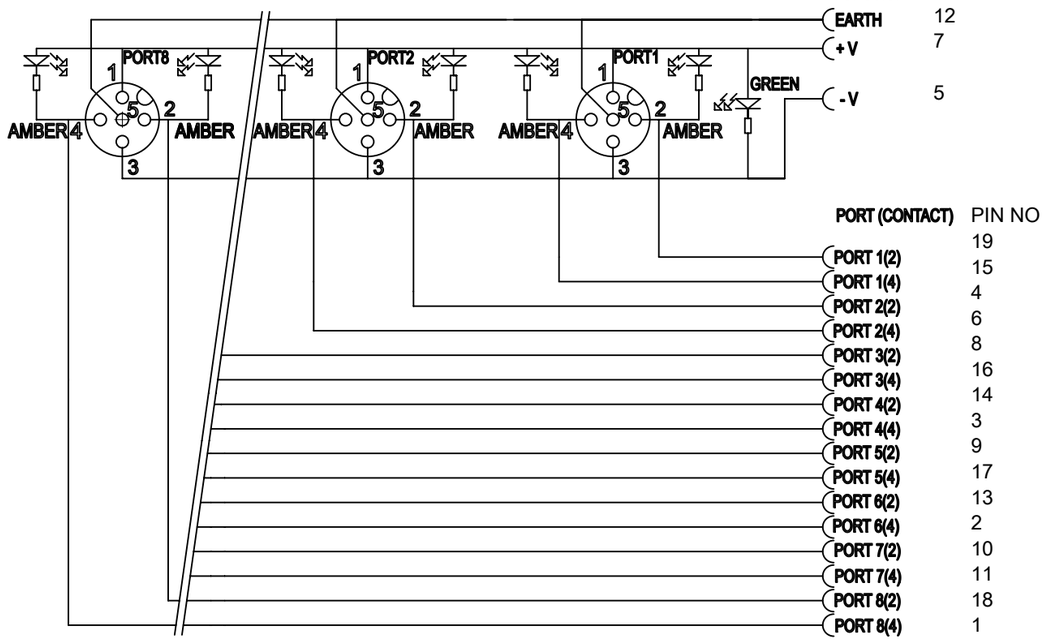
Wiring Diagram PNP Dual



FUNCTION	WIRE COLOR	PIN NO
EARTH	GREEN/YELLOW	12
+V	BROWN	7
-V	BLUE	5

PORT (CONTACT)	WIRE COLOR	PIN NO
PORT 1(2)	GREY/PINK	19
PORT 1(4)	WHITE	15
PORT 2(2)	RED/BLUE	4
PORT 2(4)	GREEN	6
PORT 3(2)	WHITE/GREEN	8
PORT 3(4)	YELLOW	16
PORT 4(2)	BROWN/GREEN	14
PORT 4(4)	GREY	3
PORT 5(2)	WHITE/YELLOW	9
PORT 5(4)	PINK	17
PORT 6(2)	YELLOW/BROWN	13
PORT 6(4)	RED	2
PORT 7(2)	WHITE/GREY	10
PORT 7(4)	BLACK	11
PORT 8(2)	GREY/BROWN	18
PORT 8(4)	VIOLETT	1

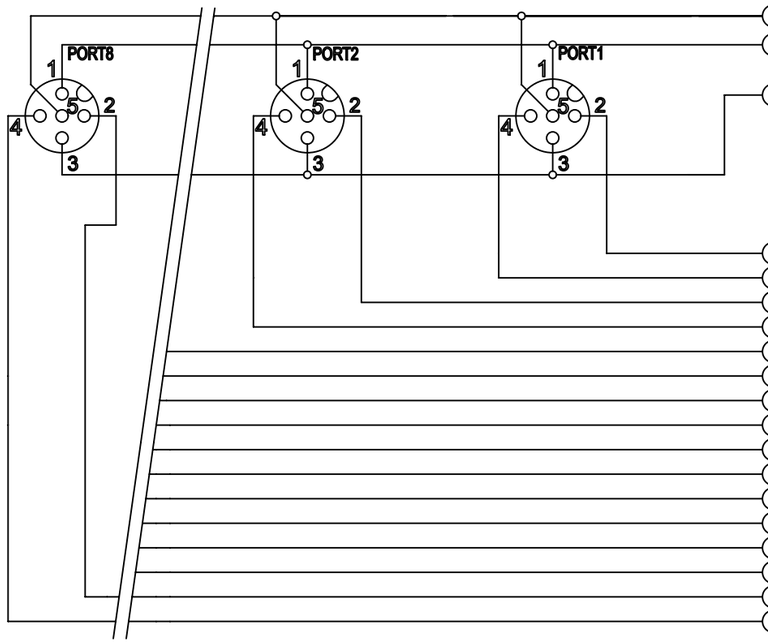
Wiring Diagram NPN Dual



FUNCTION	PIN NO
EARTH	12
+V	7
-V	5

PORT (CONTACT)	PIN NO
PORT 1(2)	19
PORT 1(4)	15
PORT 2(2)	4
PORT 2(4)	6
PORT 3(2)	8
PORT 3(4)	16
PORT 4(2)	14
PORT 4(4)	3
PORT 5(2)	9
PORT 5(4)	17
PORT 6(2)	13
PORT 6(4)	2
PORT 7(2)	10
PORT 7(4)	11
PORT 8(2)	18
PORT 8(4)	1

Wiring Diagram NON LED Dual



FUNCTION	WIRE COLOR	PIN NO
EARTH	GREEN/YELLOW	12
+V	BROWN	7
-V	BLUE	5

PORT (CONTACT)	WIRE COLOR	PIN NO
PORT 1(2)	GREY/PINK	19
PORT 1(4)	WHITE	15
PORT 2(2)	RED/BLUE	4
PORT 2(4)	GREEN	6
PORT 3(2)	WHITE/GREEN	8
PORT 3(4)	YELLOW	16
PORT 4(2)	BROWN/GREEN	14
PORT 4(4)	GREY	3
PORT 5(2)	WHITE/YELLOW	9
PORT 5(4)	PINK	17
PORT 6(2)	YELLOW/BROWN	13
PORT 6(4)	RED	2
PORT 7(2)	WHITE/GREY	10
PORT 7(4)	BLACK	11
PORT 8(2)	GREY/BROWN	18
PORT 8(4)	VIOLETT	1

TABLE 2 BILL OF MATERIAL

ITEM	DESCRIPTION	MATERIAL	FINISH
1	LABEL	ABS	WHITE
2	CABLE PLATE	PBT	BLACK
3	CABLE	TPU BASED	BLACK
4	CONTACT	BRASS	GOLD OVER NICKEL
5	O-RING	FPM	RED
6	LED	NO LED = PA	BLACK
		WITH LED = PA	TRANSPARENT
7	SHELL	BRASS	NICKEL PLATED
8	HOUSING	PBT	BLACK
9	OVERMOLDING	PVC	YELLOW
10	COUPLING NUT	ZINC DIE CAST	BLACK
11	INSERT 7 POLE	PVC	BLACK
12	CONTACT	BRASS	GOLD OVER NICKEL

CABLE LENGTH TOLERANCES

LENGTH [m]	TOLERANCE [mm]
0-1	+40
>1-5	+60
>5-10	+80
>10-20	+140
>20-30	+160
>30	+1% length

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SYMBOLS: E = 0, E = 0, E = 0, S = 0, ▼ = 0, C = 0, ☒ = 0, ■ = 0, ▽ = 0

DIMENSION UNITS: mm | SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.05
1 PLACE	± 0.3
0 PLACES	± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1202510097	PSD	000	A1

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120251

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE TABLE 1	GENERAL MARKET	2 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2020/02/05 10:52:05

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