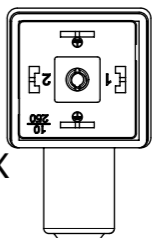
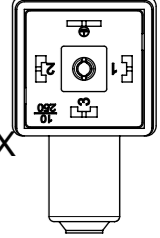
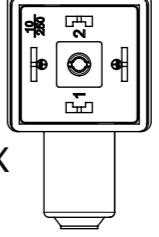
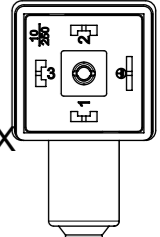
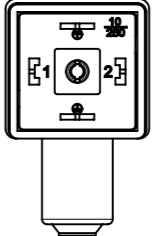
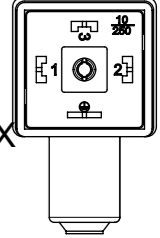
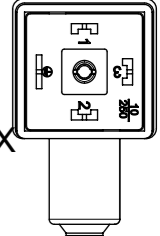


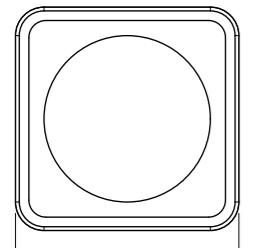
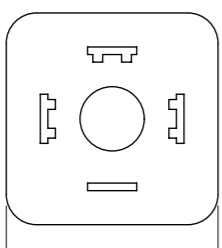
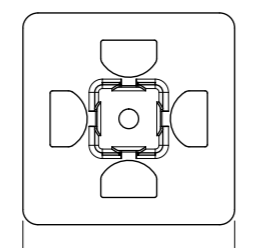
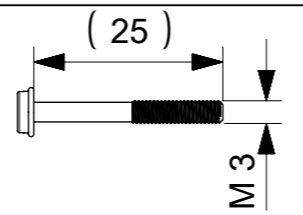
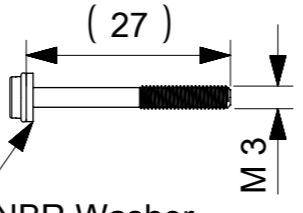
Face View (see Insert Orientation)










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

INSERT ORIENTATION	
Housing 2 Poles + 2 Earths	Housing 3 Poles + 1 Earth
Earth H6/H12 E452XXXXXX1XXXX 	Earth H12 E452XXXXXX2XXXX PIN 3 Not Used 
Earth H3/H9 E452XXXXXX4XXXX 	Earth H3 E452XXXXXX3XXXX PIN 3 Not Used 
Earth H6/H12 E452XXXXXX1XC3X E452XXXXXX1XC7X E452XXXXXX1XR0X E452XXXXXX1XR2X 	Earth H6 E452XXXXXX6XXXX PIN 3 Not Used 
	Earth H9 E452XXXXXX9XXXX PIN 3 Not Used 

Insert rotated 180°

Type of Screws and Gaskets

Profiled Gasket	Flat Gasket	Integrated Gasket	Screw M3x25
 <p>(□ 29.5)</p> <p>(5.2)</p> <p>(1.8)</p>	 <p>(□ 28)</p> <p>(1.8)</p>	 <p>(□ 28)</p> <p>(1.8)</p> <p>(9.3)</p>	 <p>(25)</p> <p>M3</p>
			Screw M3x27 + Washer  <p>(27)</p> <p>M3</p> <p>NBR Washer</p>

<b>SYMBOLS</b>  = 0  = 0  = 0  = 0  = 0  = 0  = 0  = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION DIMENSION UNITS: <b>mm</b> SCALE: <b>1:1</b> GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL: ± °	CURRENT REV DESC: EC NO: 603741 DRWN: APAWLAK01 2018/07/13 CHK'D: RSILLER 2018/08/31 APPR: RSILLER 2018/08/31 INITIAL REVISION: DRWN: APAWLAK01 2018/07/13 APPR: RSILLER 2018/08/31	 STANDARD E452 DIN FORM A EN 175301-803	
			PRODUCT CUSTOMER DRAWING	
			DOCUMENT NUMBER: <b>1210502000</b>	DOC TYPE: PSD DOC PART: 000 REVISION: A
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: <b>A3-SIZE</b> SERIES: <b>121050</b>	MATERIAL NUMBER: SEE 1210502000_PDP CUSTOMER: GENERAL MARKET SHEET NUMBER: 1 OF 3

# PN KEY ENGINEERING PN

**E 4 5 2 X X X X X X X X X X X X**

E - Packing without bag  
W - Single Packing

Number of wires:  
2 - 2 Wires + Earth

Cable type:  
See Table

Head Colour:  
G - Grey  
N - Black  
A - CSA-UL Black  
B - CSA-UL Grey

Cable Length in[cm]  
050 = 50cm  
300 = 300cm  
10K = 1000cm

Wiring Configuration:  
See sheet 3

Voltage and Led Colour

Red Led:	Green Led:	Yellow Led:
1 = 12V	A = 12V	G = 12V
2 = 24V	B = 24V	H = 24V
3 = 48V	C = 48V	K = 48V
4 = 115V	D = 115V	L = 115V
5 = 230V	E = 230V	M = 230V

Earth PIN location (see insert orientation table):  
1 = Double Earth on H6 & H12  
2 = Earth on H12  
3 = Earth on H3  
4 = Double Earth on H3 & H9  
6 = Earth on H6  
9 = Earth on H9

Type of Gasket and Screw (see sheet 1):  
1 = NBR Profile Gasket + Fixing Screw M3x25mm  
2 = NBR Flat Gasket + Fixing Screw M3x25mm  
3 = Silicone Profile Gasket + Fixing Screw M3x25mm  
4 = Silicone Flat Gasket + Fixing Screw M3x25mm  
P = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm Assembled on Connector  
R = NBR Integrated Gasket + Fixing Screw with Washer M3x27mm NOT Assembled on Connector  
T = NBR Profile Gasket + Fixing Screw with Washer M3x27mm

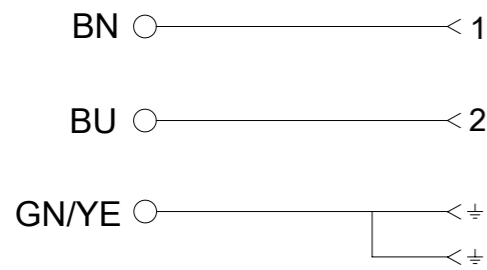
CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE O.D.	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	SHIELD
A2	3	AWG 20	5.6mm±0.2	PVC BLACK	UL 2661	CSA C22.2	-30°C to +105°C, 10xO.D.	-5°C to +105°C, 15xO.D.	-
A3	3	AWG 18	6.5mm±0.25	PVC BLACK	UL 2661	CSA C22.2	-30°C to +105°C, 10xO.D.	-5°C to +105°C, 15xO.D.	-
B2	3	AWG 20	5.6mm±0.2	PUR BLACK	UL 20668	CSA C22.2	-40°C to +90°C, 5xO.D.	-25°C to +90°C, 10xO.D.	-
B3	3	AWG 18	6.5mm±0.2	PUR BLACK	UL 20668	CSA C22.2	-40°C to +90°C, 5xO.D.	-25°C to +90°C, 10xO.D.	-
F4	3	1mm²	7.1mm+0.2	PVC GREY	-	-	-15°C to +70°C, 10xO.D.	-5°C to +60°C, 15xO.D.	-
I0	3	1mm²	7.6mm±0.2	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	YES
I2	3	0.5mm²	5.5mm+0.3	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
I3	3	0.75mm²	6.0mm±0.2	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
I4	3	1mm²	7.1mm+0.2	PVC GREY	-	-	-25°C to +70°C, 10xO.D.	-5°C to +70°C, 15xO.D.	-
N2	3	0.5mm²	5.6mm±0.7	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
N3	3	0.75mm²	6.8mm±0.8	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
N4	3	1mm²	7.15mm±0.85	PVC BLACK	-	-	-20°C to +70°C, 3xO.D.	-15°C to +70°C, 5xO.D.	-
P1	3	0.34mm²	5.3mm±0.2	PUR BLACK	-	-	-25°C to +80°C, 10xO.D.	-5°C to +80°C, 15xO.D.	-
P2	3	0.5mm²	5.5mm+0.3	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-
P3	3	0.75mm²	6.5mm±0.2	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-
R4	3	1mm²	7.1mm±0.2	TPR HF BLACK	-	-	-	-	-
Y3	3	0.75mm²	6.5mm±0.2	SILICONE RED	-	-	-60°C to +180°C, 15xO.D.	-	-

Notes:  
1. Please see excel sheet 1210502000\_PDP for currently configured part numbers.  
2. Drawing is a replacement for: SD-121050-001

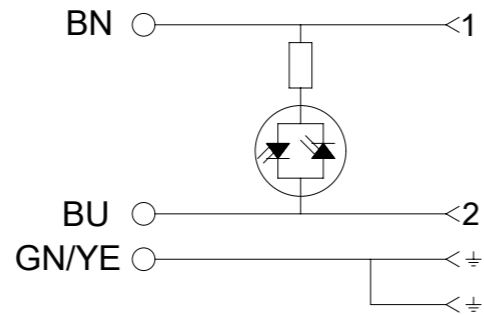
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	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: APAWLAK01 2018/07/13			
	ANGULAR TOL ± °		CHK'D: RSILLER 2018/08/31			
4 PLACES ±	APPR: RSILLER 2018/08/31		PRODUCT CUSTOMER DRAWING			
3 PLACES ±	INITIAL REVISION:		DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
2 PLACES ±	DRWN: APAWLAK01 2018/07/13		1210502000	PSD	000	A
1 PLACE ±	APPR: RSILLER 2018/08/31		MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
0 PLACES ±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE 1210502000_PDP	GENERAL MARKET		2 OF 3
THIRD ANGLE PROJECTION	DRAWING	SERIES	A3-SIZE	121050		

# WIRING DIAGRAMS

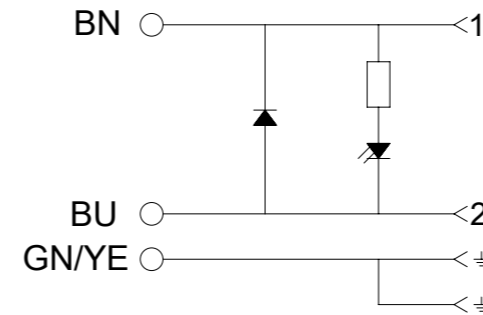
ELECTRICAL DIAGRAM 00



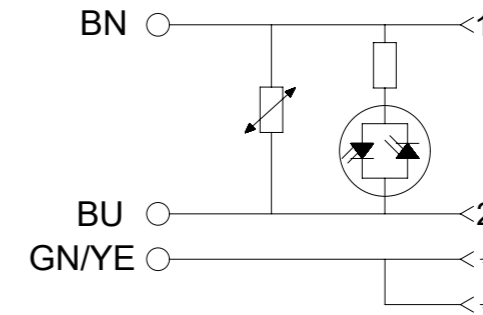
ELECTRICAL DIAGRAM A1



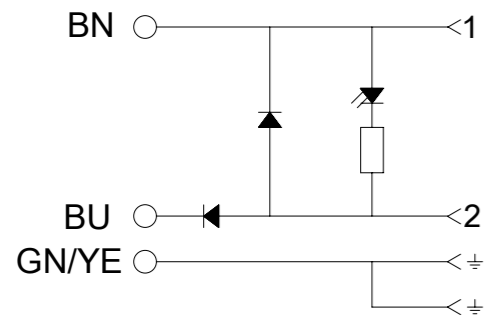
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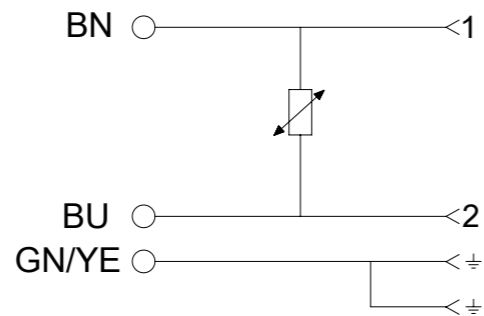
ELECTRICAL DIAGRAM C4



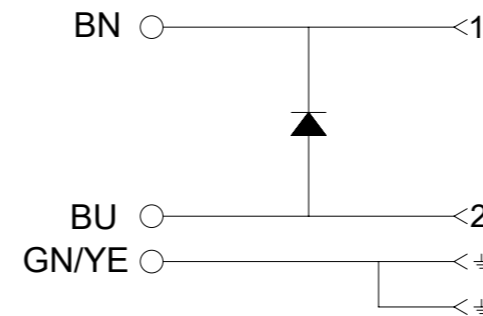
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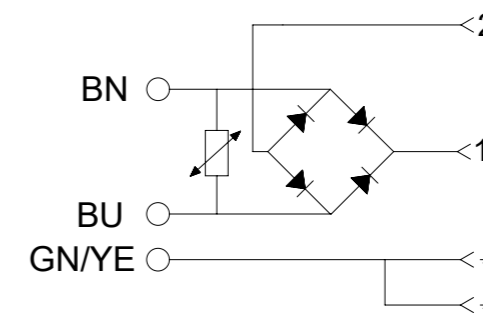
ELECTRICAL DIAGRAM D0



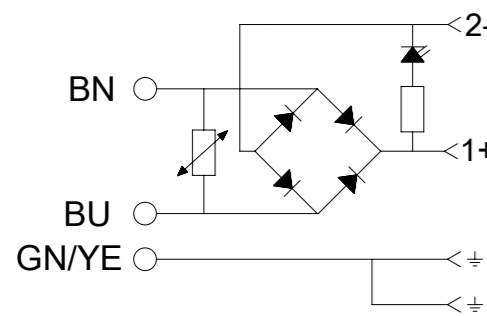
ELECTRICAL DIAGRAM E0



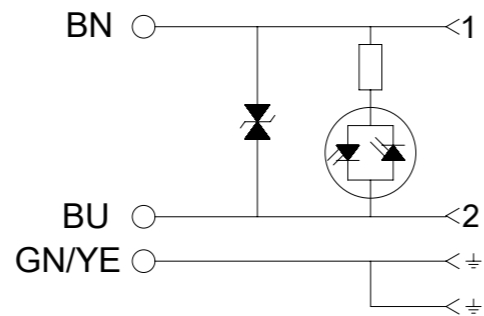
ELECTRICAL DIAGRAM R0



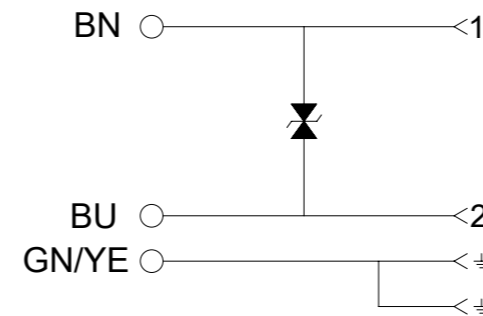
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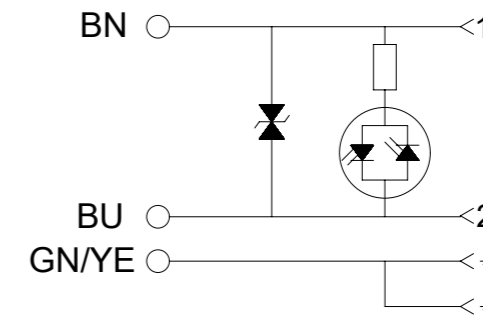
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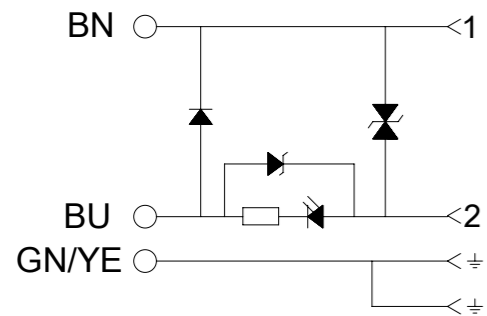
ELECTRICAL DIAGRAM S1



ELECTRICAL DIAGRAM S3



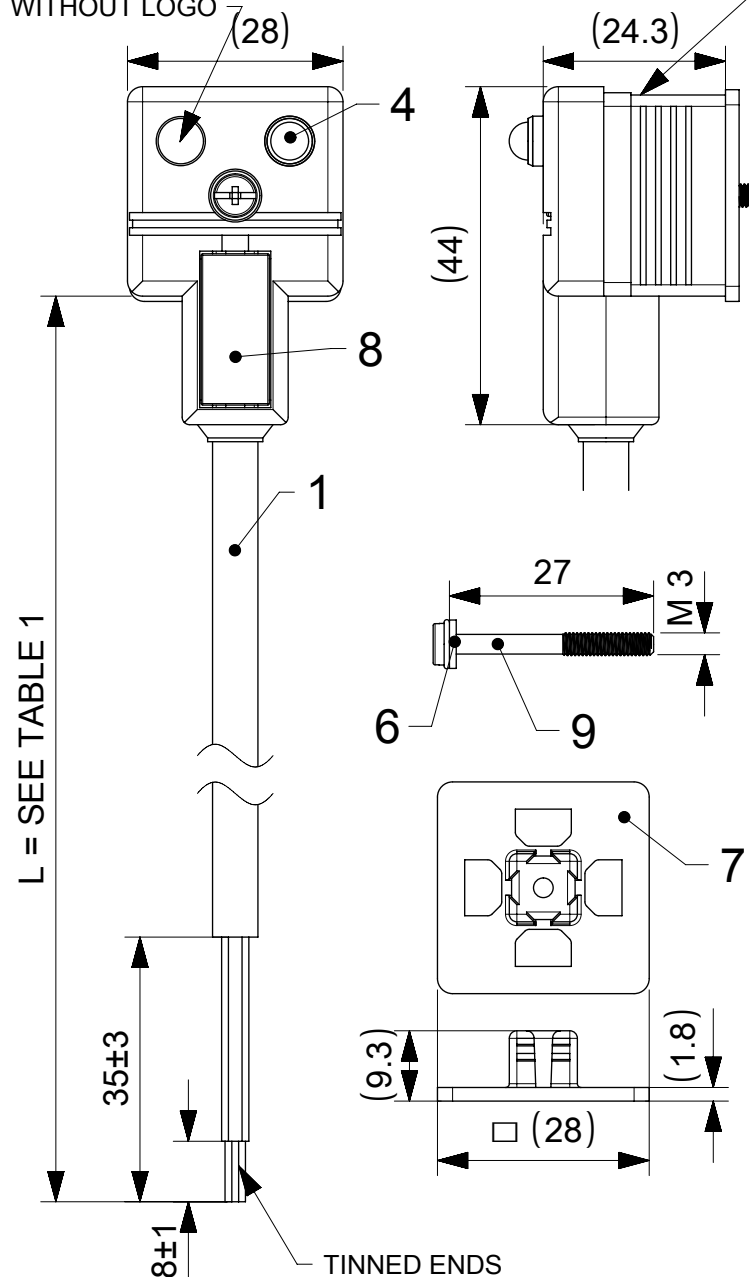
ELECTRICAL DIAGRAM NS



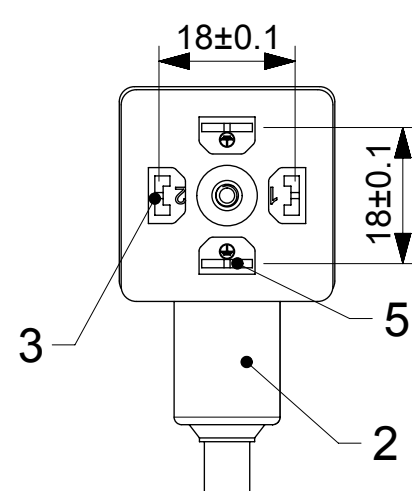
Technical Spec:  
 Supply Voltage: See PN KEY  
 Max. current: 5A; A1-C4-S0  
 1,5A; R2  
 Contact Resistance: ≤15milliohms max.  
 Operating Temperature:  
 with NBR Gasket: -40°C +90°C  
 with Silicone: -40°C +125°C

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
SYMBOLS	DIMENSION UNITS	SCALE	CURRENT REV DESC:											
	mm	1:1	EC NO: 603741 DRWN: APWLAK01 2018/07/13 CHK'D: RSILLER 2018/08/31 APPR: RSILLER 2018/08/31 INITIAL REVISION: DRWN: APWLAK01 2018/07/13 APPR: RSILLER 2018/08/31											
GENERAL TOLERANCES (UNLESS SPECIFIED)		<b>molex</b> STANDARD E452 DIN FORM A EN 175301-803												
▽ = 0	ANGULAR TOL	± °	PRODUCT CUSTOMER DRAWING											
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▽ = 0	2 PLACES	±	MATERIAL NUMBER			CUSTOMER			SHEET NUMBER					
▽ = 0	1 PLACE	±	SEE 1210502000_PDP			GENERAL MARKET			3 OF 3					
▽ = 0	0 PLACES	±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		A3-SIZE			
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OVERMOULDED WITHOUT LOGO



CIRCUIT PRINTOUT C4 24V/WHITE



ELECTRICAL DIAGRAM C4

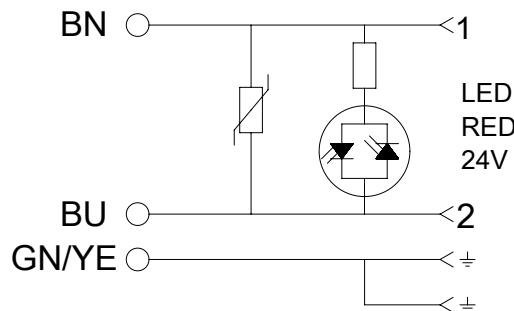


TABLE 1

MOLEX PN	ENGINEERING PN	CABLE	LENGTH
1210503618	E452P3N5001PC426B	P3	5000±40
1210503619	E452P3N6001PC426B	P3	6000±50

BILL OF MATERIALS

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
9	1	WASHER	NBR	-
8	1	LABEL WHITE	ABS	-
7	1	GASKET	NBR	-
6	1	SCREW	STEEL	ZINC
5	4	CONTACT	BRASS	SILVER
4	1	PCB C4 24V RED LED	-	-
3	1	INSERT FOR DIN A BLACK	PA66+25%G V0	-
2	-	MOULDING MATERIAL BLACK	PP	-
1	-	CABLE	(SEE CATALOG)	-

NOTES:

1. SCREW WITH WASHER AND GASKET ASSEMBLED ON CONNECTOR.

RELEASE STATUS P1 RELEASE DATE 10.04.2017 06:31:43

FORMAT: master-ib-prod-A4  
REVISION: C  
DATE: 2015/12/14

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QUALITY SYMBOLS ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0 ▽ = 0	EC NO: 115496 DRWN: APAWLAK01 CHK'D: MIWASIECZKO APPR: MIWASIECZKO	2017/04/05 2017/04/10	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS	SCALE	
			ANGULAR TOL ±	MM	1:1	
			4 PLACES ±	DRWN BY	DATE	
			3 PLACES ±	APAWLAK01	2017/04/05	
2 PLACES ±	CHK'D BY	DATE	CAB452N 3X0.75XXXXXX PUR			
1 PLACE ±	APPR BY	DATE				
0 PLACES ±	MIWASIECZKO	2017/04/10				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWING SIZE	THIRD ANGLE PROJECTION				
	A4		PRODUCT CUSTOMER DRAWING			
			SERIES: 121050 MATERIAL NUMBER: SEE TABLE CUSTOMER: GENERAL MARKET			
			DOCUMENT NUMBER: 1210503618 DOC TYPE: PSD DOC PART: 000 SHEET NUMBER: 1 OF 1			