

PN KEY ENGINEERING PN

E

4

5

2

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:

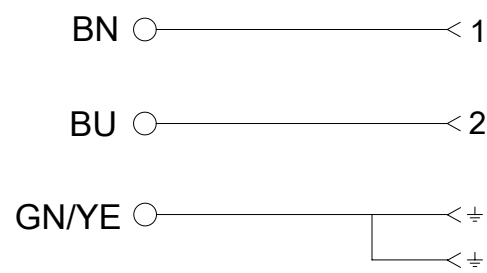
1. Please see excel sheet 1210502000_PDP for currently configured part numbers.
2. Drawing is a replacement for: SD-121050-001

DOCUMENT STATUS	P1	RELEASE DATE	2018/08/31	12:24:53
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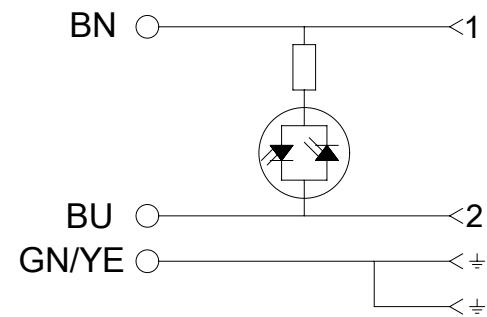
SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC:			
	DIMENSION UNITS	SCALE				
	mm	1:1				
	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 603741 DRWN: APAWLAK01 2018/07/13 CHK'D: RSILLER 2018/08/31 APPR: RSILLER 2018/08/31		molex STANDARD E452 DIN FORM A EN 175301-803	
	ANGULAR TOL	± °				
	4 PLACES	±				
	3 PLACES	±	INITIAL REVISION: DRWN: APAWLAK01 2018/07/13 APPR: RSILLER 2018/08/31		PRODUCT CUSTOMER DRAWING	
	2 PLACES	±			DOCUMENT NUMBER	
	1 PLACE	±			1210502000	
	0 PLACES	±	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DOC TYPE	DOC PART
			THIRD ANGLE PROJECTION	DRAWING	SERIES	REVISION
				A3-SIZE	121050	A
			MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
			SEE 1210502000_PDP		GENERAL MARKET	2 OF 3

WIRING DIAGRAMS

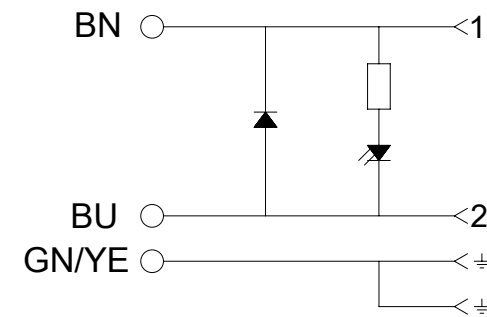
ELECTRICAL DIAGRAM 00



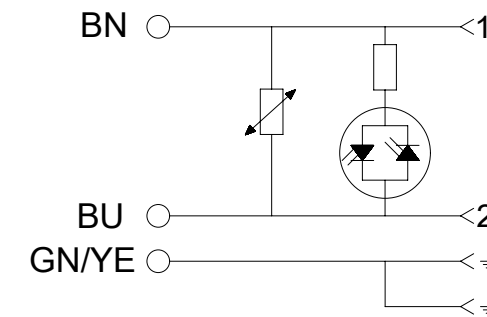
ELECTRICAL DIAGRAM A1



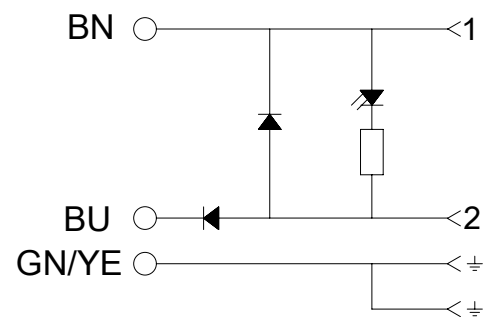
ELECTRICAL DIAGRAM C3



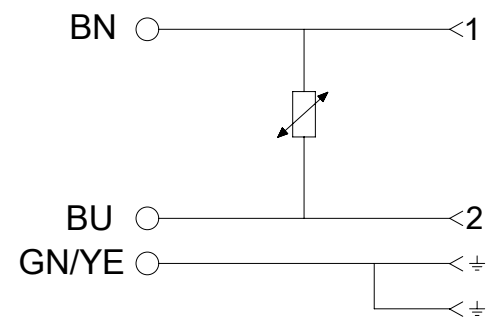
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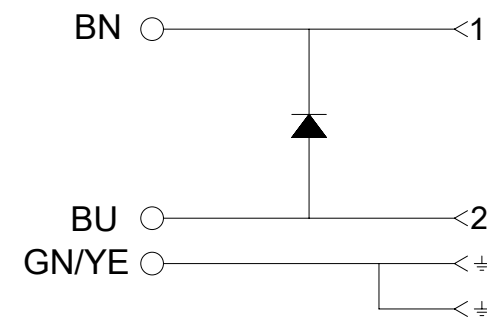
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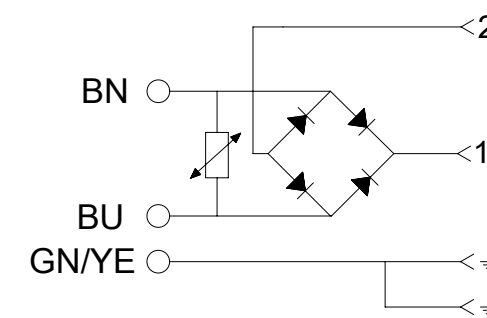
ELECTRICAL DIAGRAM D0



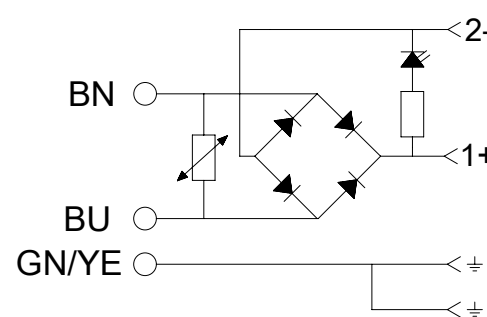
ELECTRICAL DIAGRAM E0



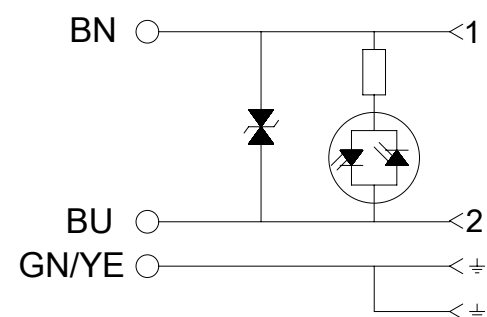
ELECTRICAL DIAGRAM R0



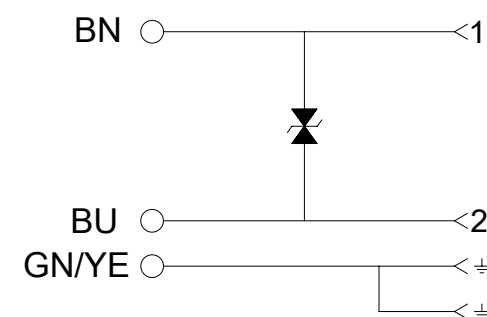
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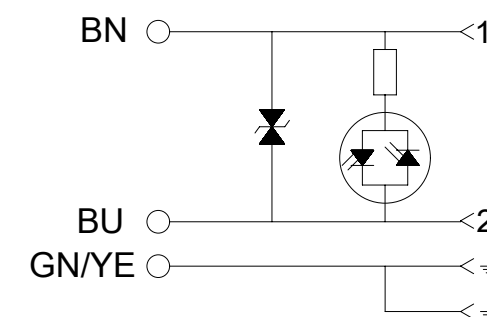
ELECTRICAL DIAGRAM S0



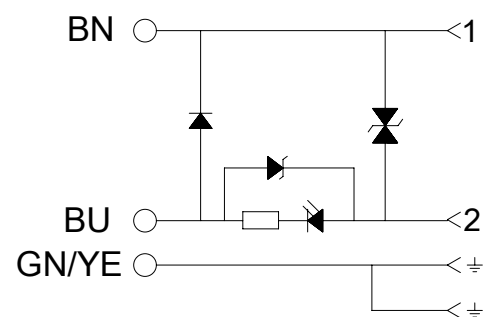
ELECTRICAL DIAGRAM S1



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

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SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC:					
 = 0	mm		1:1								
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)										
 = 0											
ANGULAR TOL ± °											
 = 0					4 PLACES					±	
 = 0					3 PLACES					±	
 = 0	2 PLACES		±	EC NO: 603741							
 = 0	1 PLACE		±	DRWN: APAWLAK01		2018/07/13		molex STANDARD E452 DIN FORM A EN 175301-803 PRODUCT CUSTOMER DRAWING			
 = 0	0 PLACES		±	CHK'D: RSILLER		2018/08/31					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				INITIAL REVISION:							
				DRWN: APAWLAK01		2018/07/13					
				APPR: RSILLER		2018/08/31					
 = 0					THIRD ANGLE PROJECTION		DRAWING		SERIES		
								A3-SIZE		121050	
								MATERIAL NUMBER		CUSTOMER	
								SEE 1210502000_PDP		GENERAL MARKET	
										SHEET NUMBER	
										9 OF 3	