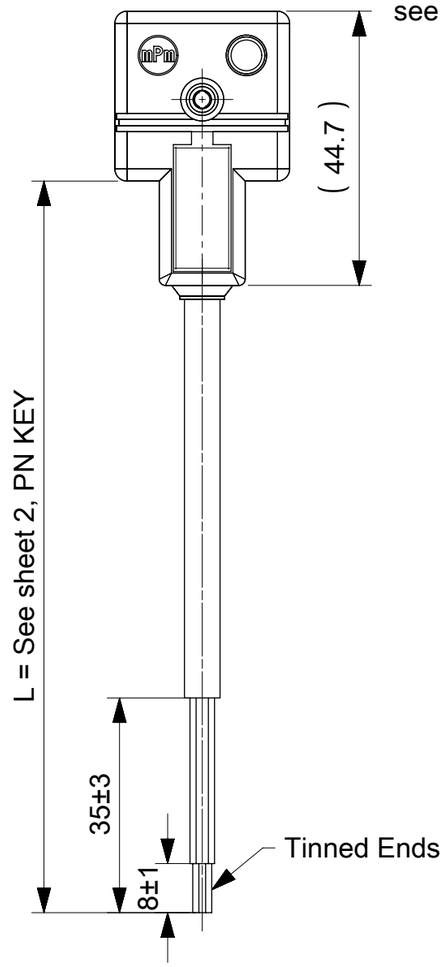
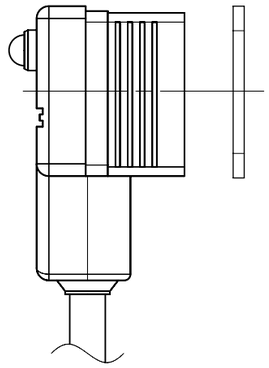
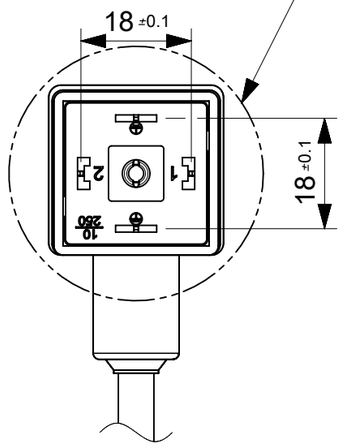
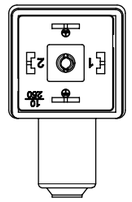
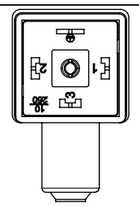
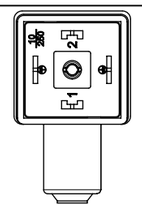
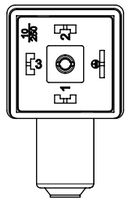
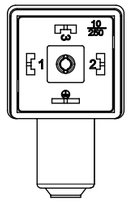
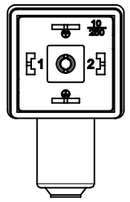
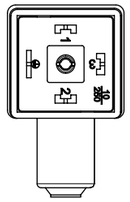


Type of Screw and Gasket
see sheet 2, PN KEY



Face View
(see Insert Orientation)



INSERT ORIENTATION	
Housing 2 Poles + 2 Earths	Housing 3 Poles + 1 Earth
Earth H6/H12 - Not Used E451XXXXXX1XXXX 	Earth H12 -Not Used E451XXXXXX2XXXX PIN 3 Not Used 
Earth H3/H9 - Not Used E451XXXXXX4XXXX 	Earth H3 - Not Used E451XXXXXX3XXXX PIN 3 Not Used 
Earth H6/H12 - Not Used E451XXXXXX1XC3X E451XXXXXX1XC7X E451XXXXXX1XR0X E451XXXXXX1XR2X	Earth H6 - Not Used E451XXXXXX6XXXX PIN 3 Not Used 
Insert 180° 	Earth H9 - Not Used E451XXXXXX9XXXX PIN 3 Not Used 

Type of Screws and Gaskets

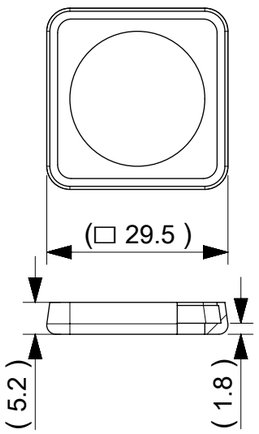
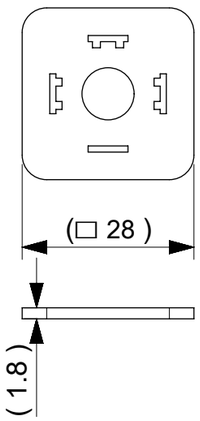
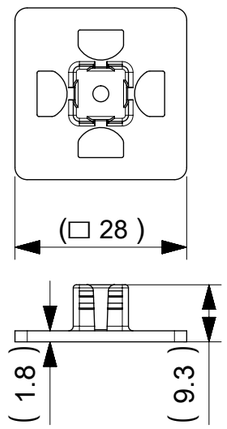
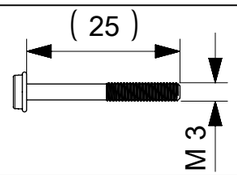
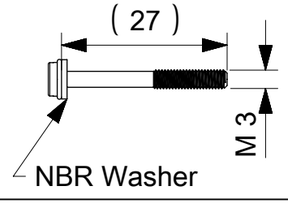
Profiled Gasket	Flat Gasket	Integrated Gasket	Screw M3x25
			
			Screw M3x27 + Washer
			

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

SYMBOLS	
E = 0	
E = 0	
E = 0	
S = 0	
▼ = 0	
V = 0	
☒ = 0	
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V = 0	

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

DIMENSION UNITS	SCALE
mm	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

CURRENT REV DESC:

EC NO:	791448	
DRWN:	MARCIM6	2024/06/28
CHK'D:	RSILLER	2024/07/04
APPR:	RSILLER	2024/07/04

INITIAL REVISION:

DRWN:	SSM	2019/06/04
APPR:	RSILLER	2019/06/28

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121050

molex

STANDARD E451 DIN FORM A
EN 175301-803

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1210504000	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE 1210504000_PDP	GENERAL MARKET	1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/04 12:12:01

FORMAT: mxmp_D_mm_A3
REVISION: H
DATE: 2018/01/18

KLUCZ / PN KEY ENGINEERING PN

E	4	5	1	X	X	X	X	X	X	X	X	X	X	X

E - Packing without bag
W - Single Packing

Number of wires:
1 - 2 Wires

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

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

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

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 LIST

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE O.D.	CABLE JACKET	KOLORY PRZEWODÓW WIRES COLOR	SHIELD
A2	2	AWG 20	5.4mm±0.2	PVC BLACK	BN, BU	-
A3	2	AWG 18	6.2mm±0.25	PVC BLACK	BN, BU	-
B2	2	AWG 20	5.6mm±0.2	PUR BLACK	BN, BU	-
B3	2	AWG 18	6.2mm±0.2	PUR BLACK	BN, BU	-
I2	2	0.5mm²	5.5mm+0.3	PVC GREY	BN, BU	-
I3	2	0.75mm²	5.5mm±0.2	PVC GREY	BK1,BK2	-
I4	2	1mm²	7.1mm±0.2	PVC GREY	BN, BU	-
N2	2	0.5mm²	5.25mm±0.65	PVC BLACK	BN, BU	-
N3	2	0.75mm²	6.45mm±0.75	PVC BLACK	BN, BU	-
N4	2	1mm²	6.45mm±0.75	PVC BLACK	BN, BU	-
P2	2	0.5mm²	5.5mm+0.2	PUR BLACK	BN, BU	-
P3	2	0.75mm²	6.5mm±0.2	PUR BLACK	BN, BU	-
W2	2	0.5mm²	~5.2mm	WSOR BLACK	BN, BU	-
W3	2	0.75mm²	~6.0mm	WSOR BLACK	BN, BU	-

Notes:
1. Please see excel sheet 1210504000_PDP for currently configured part numbers.
2. Drawing is a replacement for: SD-121050-004

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/04 12:12:01

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SYMBOLS: = 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

CURRENT REV DESC:
EC NO: 791448
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APPR: RSILLER 2024/07/04
INITIAL REVISION:
DRWN: SSM 2019/06/04
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THIRD ANGLE PROJECTION
DRAWING: A3-SIZE
SERIES: 121050

molex

STANDARD E451 DIN FORM A
EN 175301-803

PRODUCT CUSTOMER DRAWING

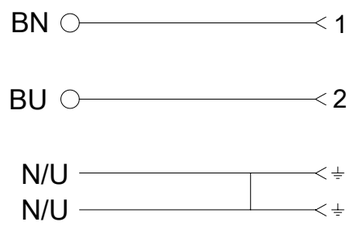
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1210504000	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE 1210504000_PDP	GENERAL MARKET	2 OF 3

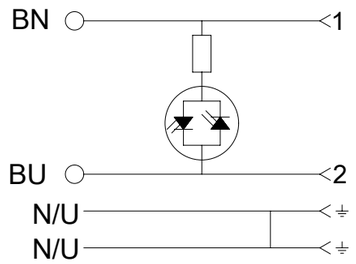
FORMAT: master_Sized-A3
REVISION: H
DATE: 2018/01/18

WIRING DIAGRAMS

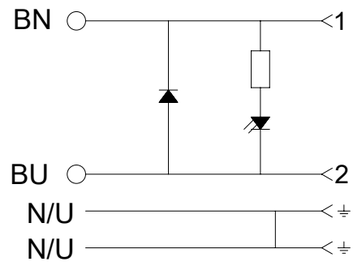
ELECTRICAL DIAGRAM 00
WITHOUT LED



ELECTRICAL DIAGRAM A1



ELECTRICAL DIAGRAM C3



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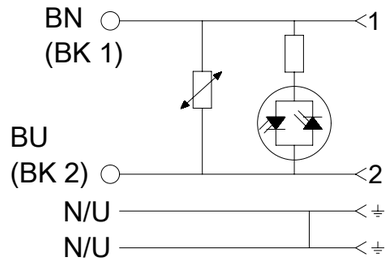

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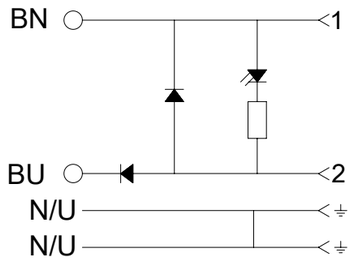

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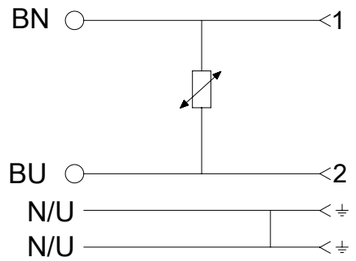

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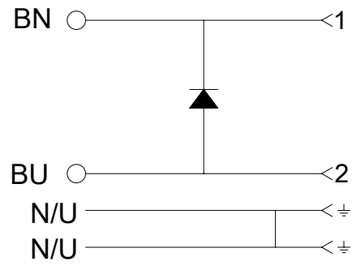

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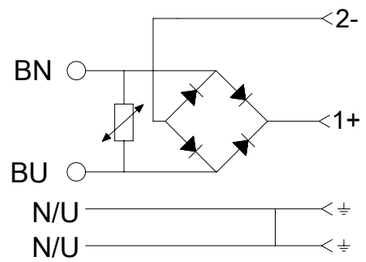

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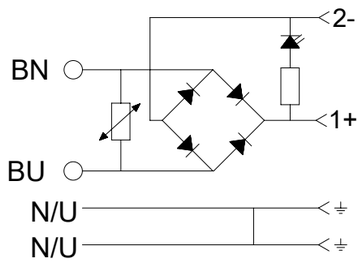
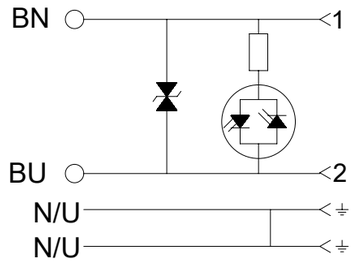
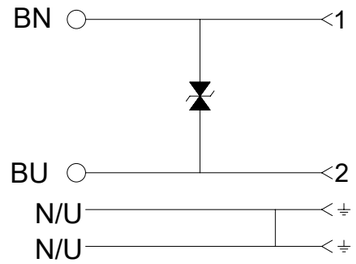


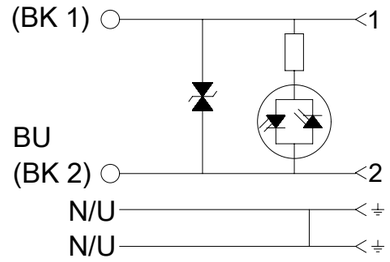
ELECTRICAL DIAGRAM S0



ELECTRICAL DIAGRAM S1



ELECTRICAL DIAGRAM S3



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DIMENSION UNITS	SCALE
mm	1:1

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ANGULAR TOL	±	1.0 °
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

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INITIAL REVISION:
DRWN: SSM 2019/06/04
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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 121050

molex

STANDARD E451 DIN FORM A
EN 175301-803

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1210504000	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE 1210504000_PDP	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/04 12:12:01

FORMAT: master_Sized-A3
REVISION: H
DATE: 2018/01/18