



22 mm

Series A
Page 17.2

UL US
CSA C22.2



30 mm

Series B
Page 17.3

UL US
CSA C22.2



30 mm

Series C
Page 17.4

UL US
CSA C22.2



30 mm

Series D
Page 17.5

UL US
CSA C22.2



36 mm

Series E
Page 17.6

UL US
CSA C22.2



36 mm

Series N
Page 17.7

UL US
CSA C22.2

Ex



Connectors
Page 17.8 - 17.10

UL US
CSA C22.2

COILS AND CONNECTORS



Coils & Connectors

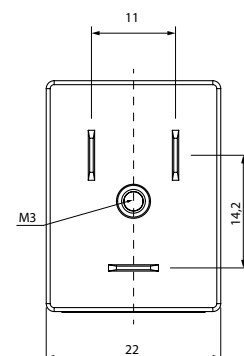
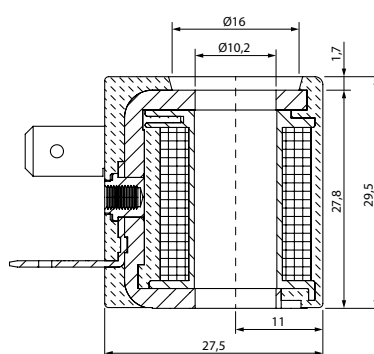
SERIES A

COIL

22 mm 

10 mm 

ED 100% 



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
AA	SOL10012C4000	12V DC	6.5 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
AB	SOL10024C4000	24V DC	6.5 W	±10 %		
AF	SOL1003C30000	3V DC	2 W	±10 %		
AH	SOL1009C10000	9V DC	3 W	±10 %		
A1	SOL10024A8000	24V AC / 50-60 Hz	7.5 VA	±10 %		
A2	SOL10110A8000	110V AC / 50-60 Hz	7.5 VA	±10 %		
A3	SOL10220A8000	220V AC / 50-60 Hz	7.5 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

IP67
IEC 60529
with connector IP67

OPTIONS

Other voltages/powers on request

SERIES B

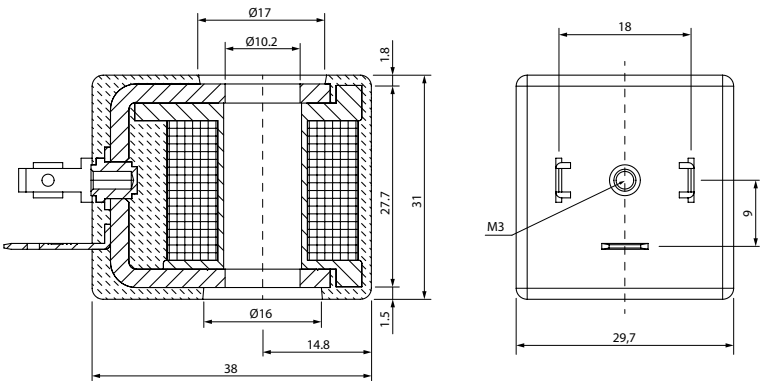
COIL



30 mm

10 mm

ED 100%



The dimensions are in millimeters (mm)



UL 429 & CSA C22.2 NO. 139-13

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
BA	SOL11012CS000	12V DC	8 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
BB	SOL11024CS000	24V DC	8 W	±10 %		
BH	SOL11012CL000	12V DC	4 W	±10 %		
B1	SOL11024A9000	24V AC / 50-60 Hz	11 VA	±10 %		
B2	SOL11110A9000	110V AC / 50-60 Hz	11 VA	±10 %		
B3	SOL11220A9000	220V AC / 50-60 Hz	11 VA	±10 %		

INSULATION CLASS	H EN 60085	ENCAPSULATION MATERIAL	RYNITE®	ELECTRICAL CONNECTIONS	FORM A EN 175301-803 (EX DIN 43650)
AMBIENT TEMPERATURE	+14°F +176°F (-10°C +80°C)	PROTECTION DEGREE	IP67 IEC 60529 with connector IP67	OPTIONS	Other voltages/powers on request

SERIES C

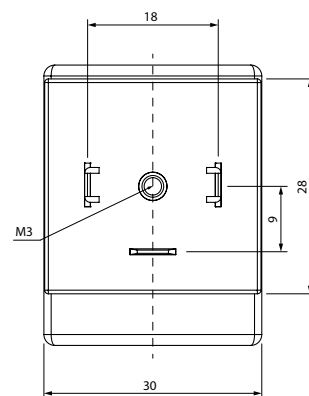
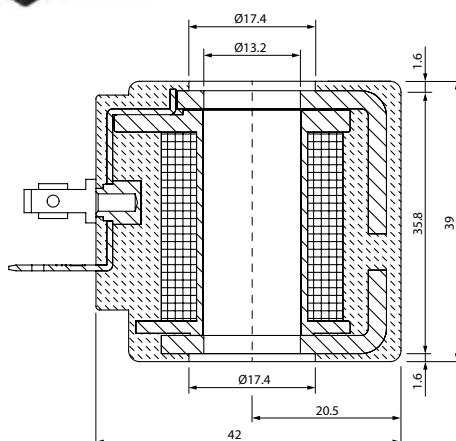
COIL



30 mm

13 mm

ED 100%



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
CA	SOL20012C5000	12V DC	8 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
CB	SOL20024C5000	24V DC	8 W	±10 %		
C1	SOL20024AA000	24V AC / 50-60 Hz	14 VA	±10 %		
C2	SOL20110AA000	110V AC / 50-60 Hz	14 VA	±10 %		
C3	SOL20220AA000	220V AC / 50-60 Hz	14 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

IP67
IEC 60529
with connector IP67

OPTIONS

Other voltages/powers on request

SERIES D

COIL

30 mm

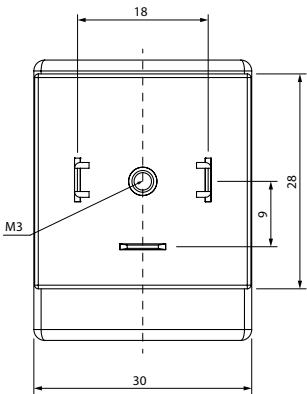
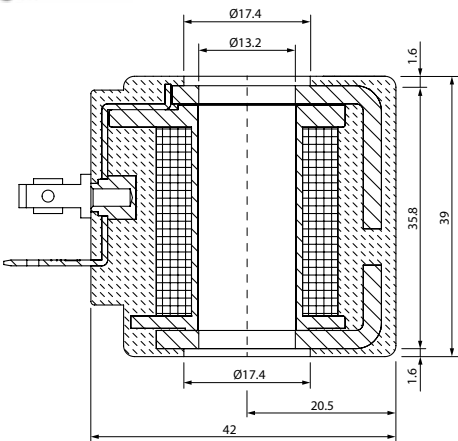


13 mm



ED 100%





UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
DA	SOL20012C6000	12V DC	14 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
DB	SOL20024C6000	24V DC	14 W	±10 %		
D1	SOL20024AB000	24V AC / 50-60 Hz	21 VA	±10 %		
D2	SOL20110AB000	110V AC / 50-60 Hz	21 VA	±10 %		
D3	SOL20220AB000	220V AC / 50-60 Hz	21 VA	±10 %		

INSULATION CLASS	H EN 60085	ENCAPSULATION MATERIAL	RYNITE®	ELECTRICAL CONNECTIONS	FORM A EN 175301-803 (EX DIN 43650)
AMBIENT TEMPERATURE	+14°F +176°F (-10°C +80°C)	PROTECTION DEGREE	IP67 IEC 60529 with connector IP67	OPTIONS	Other voltages/powers on request

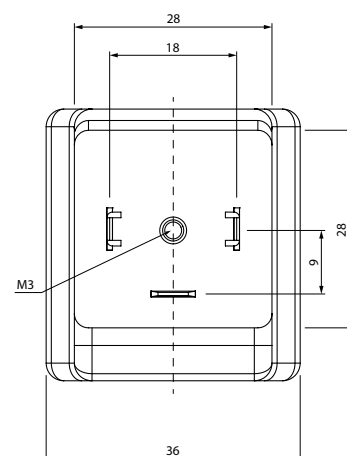
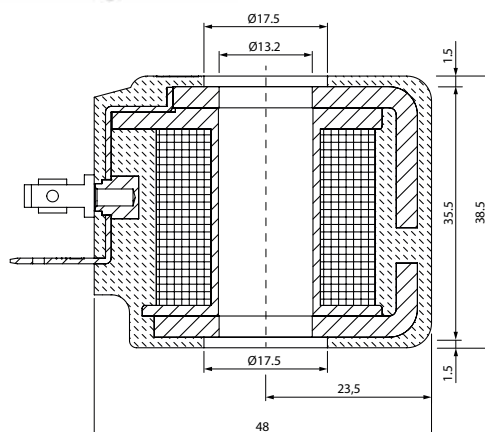
SERIES E

COIL

36 mm 

13 mm 

ED 100% 



UL 429 & CSA C22.2 NO. 139-13

The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
EA	SOL21012C7000	12V DC	22 W	±10 %	+14°F (-10°C)	+176°F (+80°C)
EB	SOL21024C7000	24V DC	22 W	±10 %		
E1	SOL21024AC000	24V AC / 50-60 Hz	31 VA	±10 %		
E2	SOL21110AC000	110V AC / 50-60 Hz	31 VA	±10 %		
E3	SOL21220AC000	220V AC / 50-60 Hz	31 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

RYNITE®

ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

AMBIENT
TEMPERATURE

+14°F +176°F
(-10°C +80°C)

PROTECTION
DEGREE

IP67
IEC 60529
with connector IP67

OPTIONS

Other voltages/powers on request

SERIES N

COIL



36 mm



9 mm



ED 100%



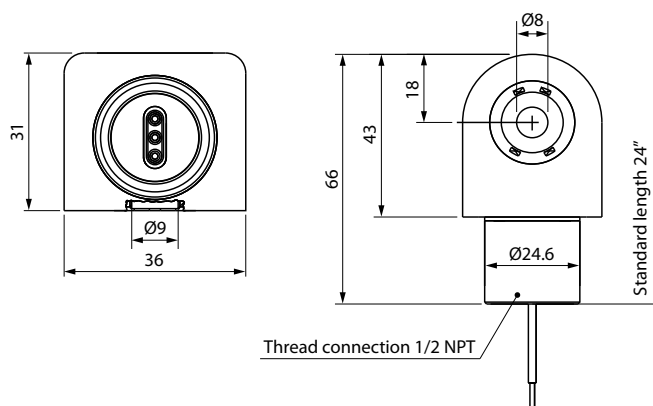
Ex m II T4 and Division 1

Specifications in accordance to CSA certificate:

- Class I, Division 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III;
- Class I, Division 2, Groups A, B, C, D.

Specifications in accordance to FM certificate:

- Explosionproof Class I, Division 1, Groups A, B, C, D, T4, Ta=60°C
- Encapsulation/explosionproof Class I, Zone 1, AEx m II T4, Ta=60°C
- Dust-ignitionproof for Class II/III, Division 1, Group E, F and G, T4, Ta=60°C
- Nonincendive Class I, Division 2, Groups A, B, C, D, T4, Ta=60°C
- Suitable for Class II, III, Division 2, Groups E, F, G, T4, Ta=60°C



The dimensions are in millimeters (mm)

Reference	Code	Voltage	Power	Voltage tolerance	Ambient temperature	
					Min	Max
NA	SOL 03 01 2C P000	12V DC	4,6 W	±10 %		
NB	SOL 03 02 4C P000	24V DC	4,6 W	±10 %	-4°F	+140°F
N6	SOL 03 12 0A N000	120V AC / 60Hz	6,8 VA	±10 %	(-20°C)	(+60°C)
N4	SOL 03 24 0A N000	240V AC / 60Hz	6,8 VA	±10 %		

INSULATION
CLASS

H
EN 60085

ENCAPSULATION
MATERIAL

THERMOPLAST

ELECTRICAL
CONNECTIONS

24 Inch (0.61m)
Three-pole cable

PROTECTION
DEGREE

IP65
IEC 60529
According to wiring

FEATURES

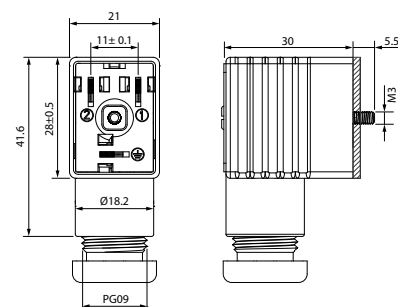
Explosion protection

EXAMINATION
CERTIFICATES

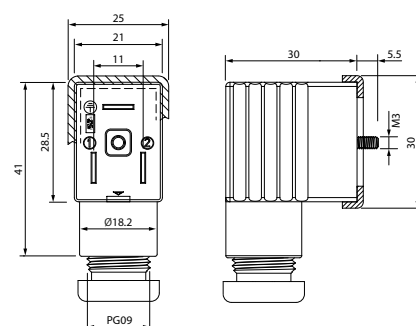
CSA 202633
FM 3006713

CONNECTORS

22 mm 



The dimensions are in millimeters (mm)



The dimensions are in millimeters (mm)

Code	Size mm	Colour	Characteristics
CON01 000 01	22	BLACK	2 PINS
CON02 024 00	22	TRANSPARENT	LED + VDR 0 - 24V
CON02 110 00	22	TRANSPARENT	LED + VDR 110V
CON02 250 00	22	TRANSPARENT	LED + VDR 220V
* CONU1 000 01	22	BLACK	2 PINS
* CONU2 024 00	22	TRANSPARENT	LED + VDR 0 - 24V
* CONU2 110 00	22	TRANSPARENT	LED + VDR 110V
* CONU2 250 00	22	TRANSPARENT	LED + VDR 220V

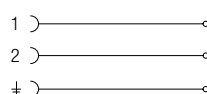
*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.

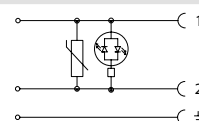


Wiring

CON01 000 01
CONU1 000 01



CON02 024 00 CON02 110 00 CON02 250 00
CONU2 024 00 CONU2 110 00 CONU2 250 00



ELECTRICAL
CONNECTIONS

FORM B - INDUSTRIAL
EN 175301-803
(EX DIN 43650)

PROTECTION
DEGREE

IP67
IEC 60529

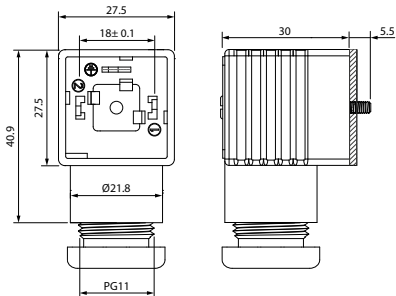
CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm

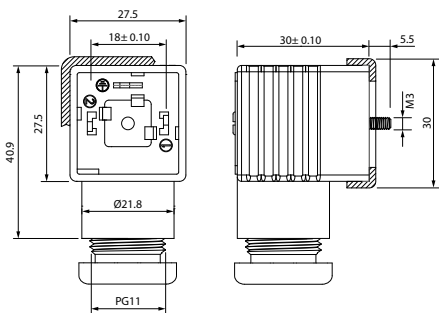
CONNECTORS

30-36 mm





The dimensions are in millimeters (mm)



The dimensions are in millimeters (mm)

Code		Size	Colour	Characteristics
		mm		
CON31 000 01		30 - 36	BLACK	2 PINS
CON32 024 00		30 - 36	TRANSPARENT	LED + VDR 0 - 24V
CON32 110 00		30 - 36	TRANSPARENT	LED + VDR 110V
CON32 250 00		30 - 36	TRANSPARENT	LED + VDR 220V
* CONU3 100 01		30 - 36	BLACK	2 PINS
* CONU3 202 40		30 - 36	TRANSPARENT	LED + VDR 0 - 24V
* CONU3 211 00		30 - 36	TRANSPARENT	LED + VDR 110V
* CONU3 225 00		30 - 36	TRANSPARENT	LED + VDR 220V

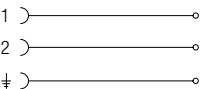
*: UL 1977 AND CAN/CSA C22.2 NO. 182.3

VDR: Fitted with varistors as surge protection device.

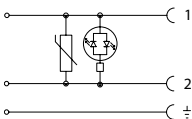


Wiring

CON31 000 01
CONU3 100 01



CON32 024 00 CON32 110 00 CON32 250 00
CONU3 202 40 CONU3 211 00 CONU3 225 00



ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX DIN 43650)

PROTECTION
DEGREE

IP67
IEC 60529

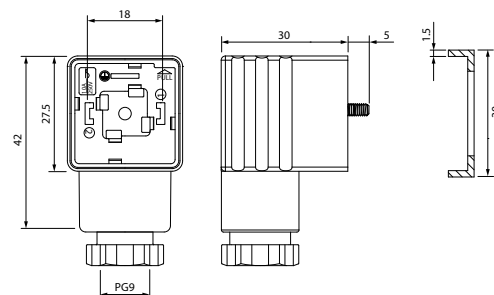
CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm

CONNECTORS

"ENERGY SAVING"

30-36 mm



The dimensions are in millimeters (mm)

Code	Size mm	Colour	Characteristics
CON33 012 00	30 - 36	TRANSPARENT	ENERGY SAVING 12 V DC (8 ÷ 20)
CON33 024 00	30 - 36	TRANSPARENT	ENERGY SAVING 24 V DC (18 ÷ 30)

ENERGY SAVING CONNECTOR

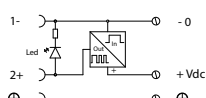


The Energy Saving connector reduces the power absorbed by the solenoid valve during supply by up to 40 per cent, thanks to 'speed up & holding' technology. Initially, it provides full power for 600 ms, and then reduces it via a PWM command that regulates the current in the coil. This ensures high performance and fast, safe switching, with considerable energy savings in the holding phase, while also reducing temperature. The connector is protected against short circuits, overloads and polarity reversals, and automatically adapts output power to changes in input voltage.



Wiring

CON33 012 00
CON33 024 00



ELECTRICAL
CONNECTIONS

FORM A
EN 175301-803
(EX D IN 43650)

PROTECTION
DEGREE

IP65
IEC 60529

CABLE
DIAMETER

6 ÷ 8 mm
&
8 ÷ 11 mm