

COILS



| Section / Description | page |
|------------------------------|------|
| STANDARD | CT4 |
| IMMERSION PROOF | CT10 |
| ACCESSORIES | CT13 |

W7 / 2017

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
 mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
 mail: tecnord@tecnord.com • www.tecnord.com

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

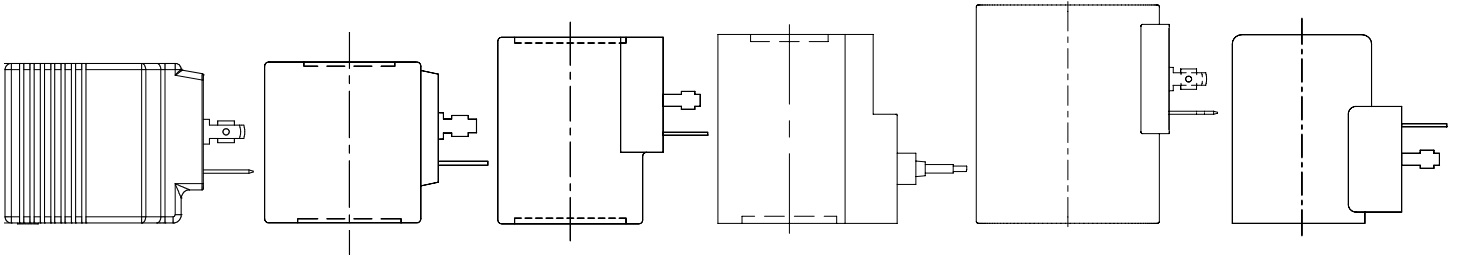


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com



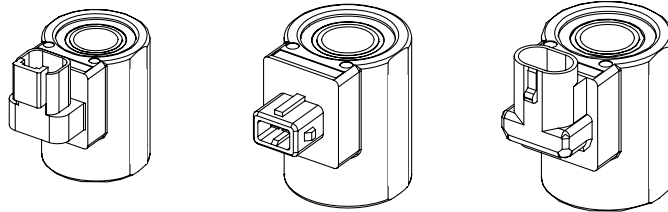
Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com

COIL DATA



STANDARD COILS

| TYPE | ID | WIDTH | HEIGHT | PAGE |
|------|------|-------|--------|------|
| PJ | 13.2 | 36 | 38.5 | CT4 |
| A | 13.2 | 30 | 39 | CT5 |
| V | 13.2 | 37.5 | 50 | CT6 |
| W | 16.1 | 37.5 | 50 | CT7 |
| Z | 19.1 | 46.5 | 56 | CT8 |
| F | 19.1 | 37 | 50 | CT9 |



IMMERSION PROOF “I” COILS

| TYPE | ID | WIDTH | HEIGHT | PAGE |
|------|------|-------|--------|------|
| PI | 13.2 | 37.5 | 43 | CT10 |
| DI | 13.2 | 37.5 | 50 | CT11 |
| LI | 16.1 | 37.5 | 50 | CT12 |

W7 / 2017

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

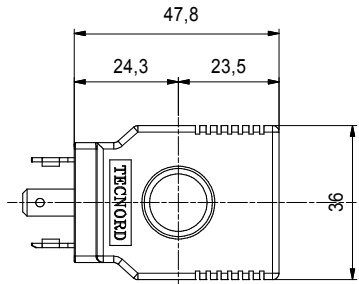
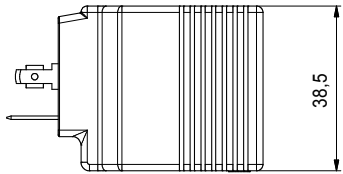


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
 mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
 mail: tecnord@tecnord.com • www.tecnord.com

“P” TYPE “J” COIL



DESCRIPTION

1/2 inch (13 mm) I.D. Coil.
Color identification: black

FEATURES

One piece encapsulated design that is:

- Weatherproof
- Immersion proof
- Thermal shock/dunk tested
- No external metal shell
- Internal arc suppression diode available on request

COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 21 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H |
| Heat insulation Class | F |
| Ambient Temperature Range | -30° to 60°C |
| Encapsulation Material | Thermo-Plastic, resistant to moisture, caustic solutions, fungus, and vibrations |

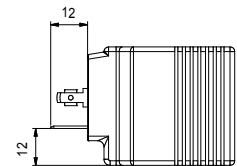
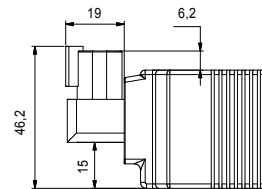
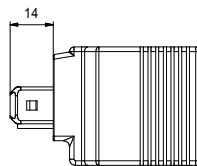
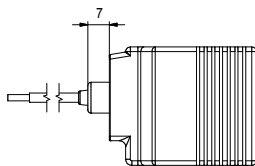
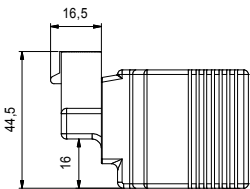
JA

JL

JJ

JD

JH



ORDERING INFORMATION

P - -

Approximate Coil Weight: .42 lbs (.19 kg)

TERMINATIONS

- “J” Coil AMP Superseal - Integral
- “J” Coil Double lead
- “J” Coil AMP Jr. Timer - Integral
- “J” Coil Deutsch - Integral DT04-2P
- “J” Coil DIN 43650 (Hirschmann)

- JA** 12
- JL** 24
- JJ** 26
- JD**
- JH**

VOLTAGE

- 12 VDC / 6.8 Ohm
- 24 VDC / 27 Ohm
- 26 VDC / 32 Ohm

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

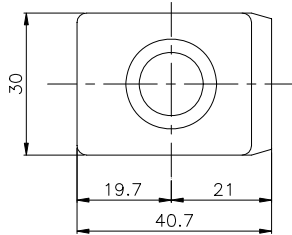
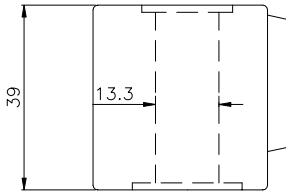


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com

“A” TYPE COIL



DESCRIPTION

1/2 inch (13 mm) I.D. Coil.
Color identification: black

FEATURES

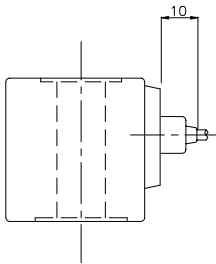
One piece encapsulated design that is:

- Immersion proof
- No external metal shell
- Internal arc suppression diode available on request

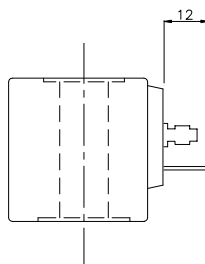
COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 18 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H (200°C) |
| Heat insulation Class | H (180°C) |
| Ambient Temperature Range | -30° to 60°C |
| Protection degree | Up to IP 65 (with connector and suitable seals) |
| Encapsulation Material | Glass filled polyester, resistant to moisture, caustic solutions, fungus and vibration |

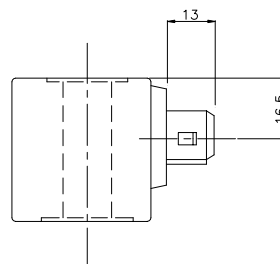
ADL



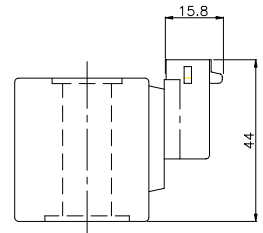
AHC



AJT



AMP



ORDERING INFORMATION

| | | | |
|-----------------------------|-----------|-----------|---|
| A | - | - | - |
| TERMINATIONS | | | |
| Double Lead | DL | 12 | |
| DIN 43650 (Hirschmann) | HC | 24 | |
| AMP Junior Timer - Integral | JT | 22 | |
| Metri-Pack - Integral | MP | | |

VOLTAGE

12 VDC / 1.5 A
24 VDC / 0.75 A
220 VAC / rectified 0.06 A
*without internal rectifier (for HC termination only)
supply voltage must be externally rectified*

Approximate Coil Weight: .42 lbs (.19 kg)

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

W7 / 2017

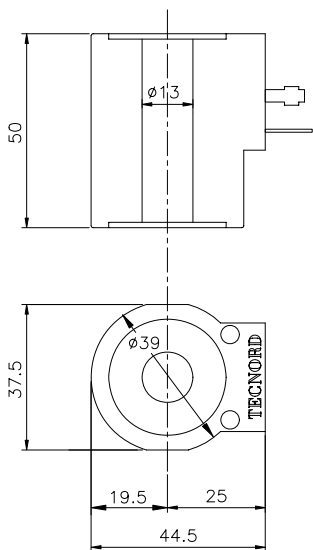


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com

“V” TYPE COIL



DESCRIPTION

1/2 inch (13 mm) I.D. Coil.
Color identification: black

FEATURES

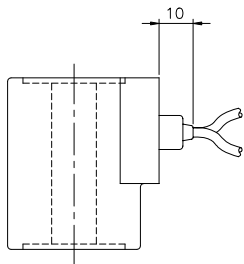
One piece encapsulated design that is:

- Immersion proof
- No external metal shell
- Internal arc suppression diode available on request

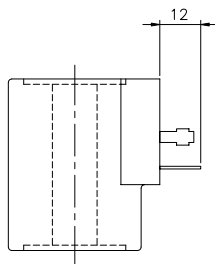
COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 24 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H (200°C) |
| Heat insulation Class | H (180°C) |
| Ambient Temperature Range | -30° to 60°C |
| Protection degree | Up to IP 65 (with connector and suitable seals) |
| Encapsulation Material | Glass filled polyester, resistant to moisture, caustic solutions, fungus and vibration |

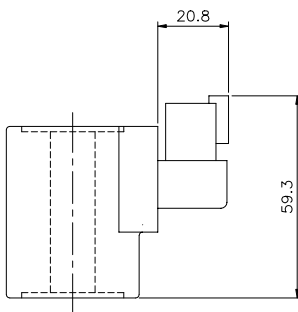
VDL



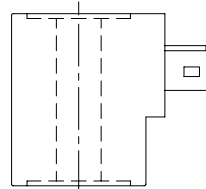
VHC



VDI



VJT



ORDERING INFORMATION

| | | | |
|-----------------------------|-----------|-----------|--|
| V | - | - | |
| TERMINATIONS | | | |
| Double Lead | DL | 12 | |
| DIN 43650 (Hirschmann) | HC | 24 | |
| AMP Junior Timer - Integral | JT | 22 | |
| Deutsch - Integral DT04-2P | DI | | |

| |
|---|
| VOLTAGE |
| 12 VDC / 2.03 A |
| 24 VDC / 1.01 A |
| 220 VAC / rectified 0.06 A |
| <i>without internal rectifier (for HC termination only)</i> |
| <i>supply voltage must be externally rectified</i> |

Approximate Coil Weight: .56 lbs (.25 kg)

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

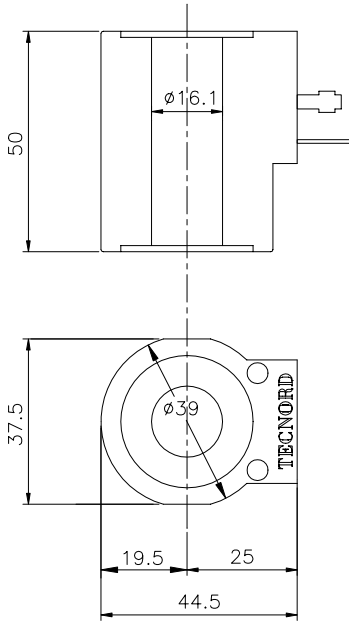


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com

“W” TYPE COIL



DESCRIPTION

5/8 inch (16 mm) I.D. Coil.
Color identification: black

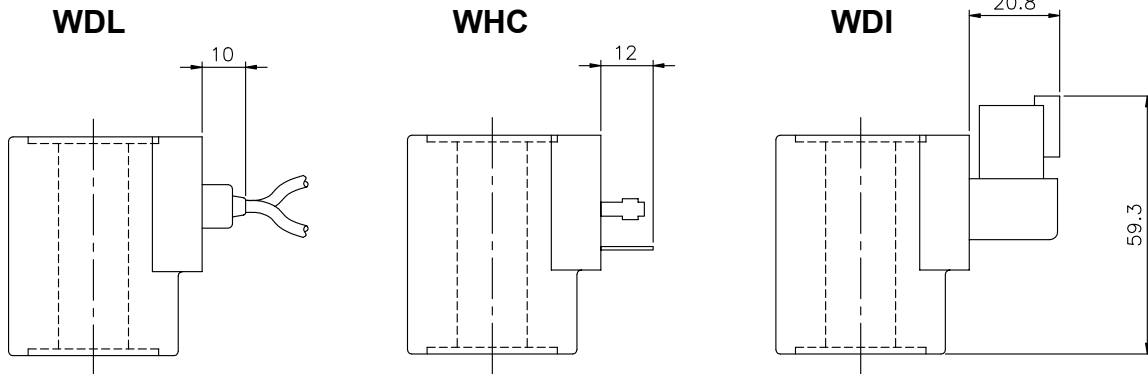
FEATURES

One piece encapsulated design that is:

- Immersion proof
- No external metal shell
- Internal arc suppression diode available on request

COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 24 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H (200°C) |
| Heat insulation Class | H (180°C) |
| Ambient Temperature Range | -30° to 60°C |
| Protection degree | Up to IP 65 (with connector and suitable seals) |
| Encapsulation Material | Glass filled polyester, resistant to moisture, caustic solutions, fungus and vibration |



ORDERING INFORMATION

| | | | |
|----------------------------|-----------|-----------|---|
| W | - | - | - |
| TERMINATIONS | | | |
| Double Lead | DL | 12 | |
| DIN 43650 (Hirschmann) | HC | 24 | |
| Deutsch - Integral DT04-2P | DI | 22 | |

VOLTAGE

| |
|---|
| 12 VDC / 2.03 A |
| 24 VDC / 1.01 A |
| 220 VAC / rectified 0.06 A |
| <i>without internal rectifier (for HC termination only)</i> |
| <i>supply voltage must be externally rectified</i> |

Approximate Coil Weight: .69 lbs (.31 kg)

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

W7 / 2017



4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com

“Z” TYPE COIL

DESCRIPTION

3/4 inch (19 mm) I.D. Coil.
Color identification: black

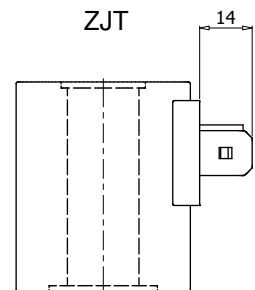
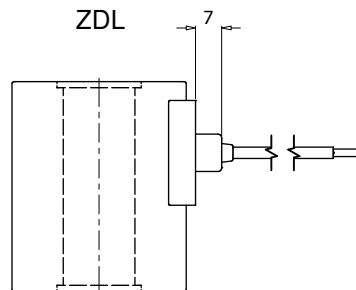
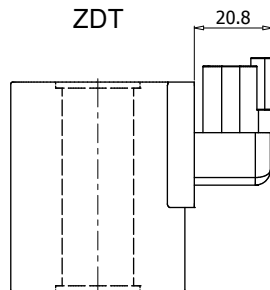
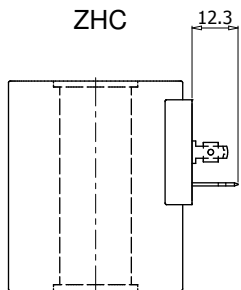
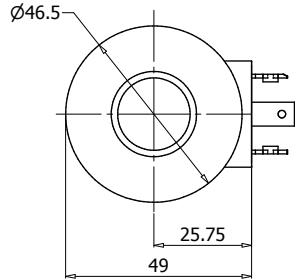
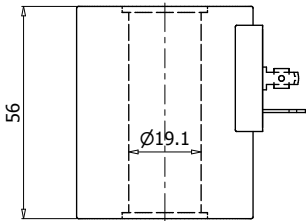
FEATURES

One piece encapsulated design that is:

- Immersion proof
- No external metal shell
- Internal arc suppression diode available on request

COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 27 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H |
| Heat insulation Class | F |
| Ambient Temperature Range | -30° to 60°C |
| Protection degree | Up to IP 65 (with connector and suitable seals) |
| Encapsulation Material | Glass filled polyester, resistant to moisture, caustic solutions, fungus and vibration |



ORDERING INFORMATION

Z - - - -

TERMINATIONS

Double Lead (L=230mm)
DIN 43650 (Hirschmann)
AMP Junior Timer - Integral
Deutsch - Integral DT04-2P

DL **12**
HC **24**
JT **22**
DI

VOLTAGE

12 VDC
24 VDC
220 VAC
*without internal rectifier (for HC termination only)
supply voltage must be externally rectified*

Approximate Coil Weight: .56 lbs (.25 kg)

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

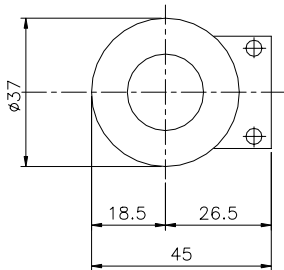
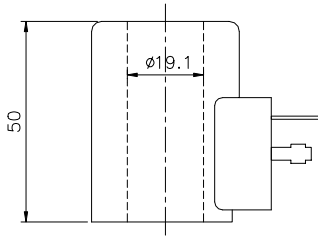


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
mail: tecnord@tecnord.com • www.tecnord.com

“F” TYPE COIL



DESCRIPTION

3/4 inch (19 mm) I.D. Coil.

Color identification: silver metallic envelope

FEATURES

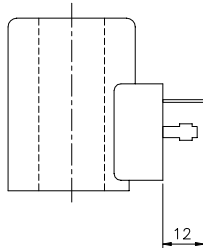
One piece encapsulated design that is:

- Immersion proof
- No external metal shell
- Internal arc suppression diode available on request

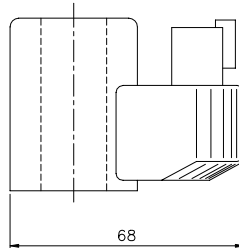
COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 20 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H (200°C) |
| Heat insulation Class | H (180°C) |
| Ambient Temperature Range | -30° to 60°C |
| Protection degree | Up to IP 65 (with connector and suitable seals) |
| Encapsulation Material | Glass filled polyester, resistant to moisture, caustic solutions, fungus and vibration |

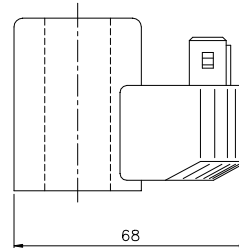
FHC



FDI



FJT



ORDERING INFORMATION

| | | | | |
|-----------------------------|-----------|-----------|---|-----------------|
| F | - | - | - | |
| TERMINATIONS | | | | VOLTAGE |
| DIN 43650 (Hirschmann) | HC | 12 | | 12 VDC / 1.66 A |
| AMP Junior Timer - Integral | JT | 24 | | 24 VDC / 0.83 A |
| Deutsch - Integral DT04-2P | DI | | | |

Approximate Coil Weight: .49 lbs (.22 kg)

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

W7 / 2017



4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
 mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
 mail: tecnord@tecnord.com • www.tecnord.com

IMMERSION PROOF "P" TYPE "I" COILS

DESCRIPTION

1/2 inch (13 mm) I.D. Short Immersion Proof Coil.

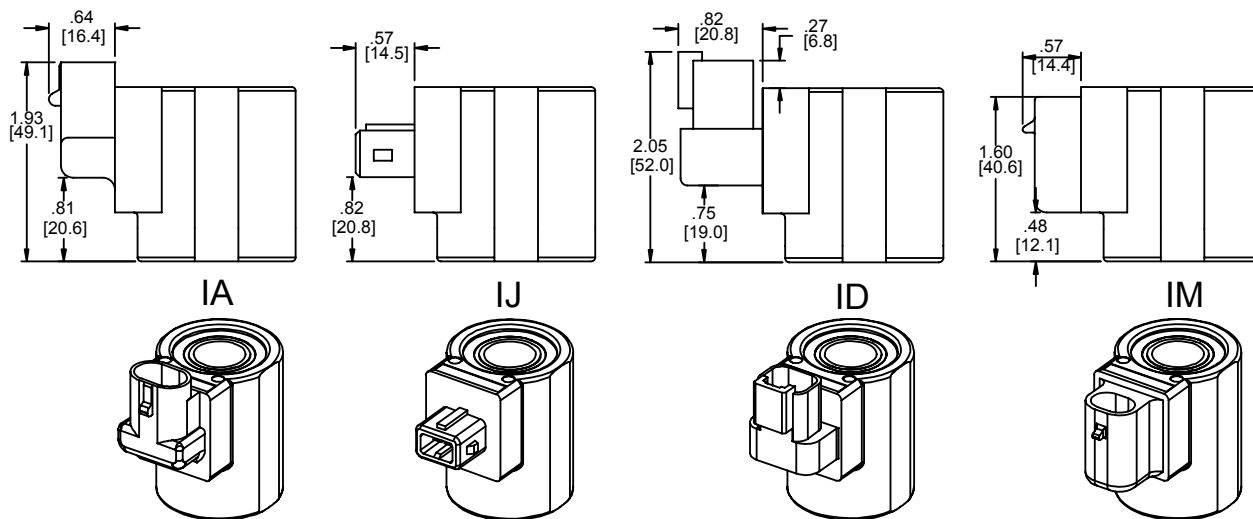
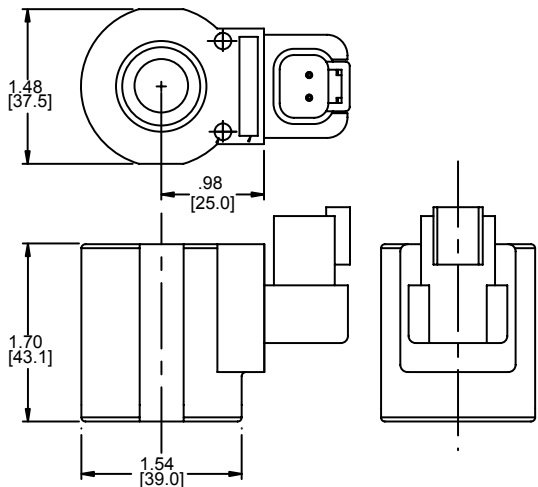
FEATURES

One piece encapsulated design that is:

- Weatherproof
- Immersion proof
- Thermal shock / dunk tested
- No external metal shel

COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 20 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H or Better for all voltages |
| Temperature Range | -40° to 392°F (-40° to 200°C) |
| Protection degree | Up to IP 65 (with connector and suitable seals) |
| Encapsulation Material | Thermo-Plastic, resistant to moisture, caustic solutions, fungus, and vibrations |



ORDERING INFORMATION

| | | | |
|-----------------------------|-----------|-----------|---|
| P | - | - | - |
| TERMINATIONS | | | |
| AMP Superseal - Integral | IA | 12 | |
| Deutsch - Integral DT04-2P | ID | 24 | |
| AMP Junior Timer - Integral | IJ | | |
| Metri-Pack - Integral | IM | | |

VOLTAGE
 1.6 Amp Yellow Lettering
 .80 Amp Blue Lettering

Approximate Coil Weight: .43 lbs (.19 kg)

NOTE: Pull type valves require nut 36202073 in lieu of standard nut. Push type valves require nut 36202071 in lieu of standard nut, except for PB-S2I, HB-S2C & HB-S2D use nut 36202090.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.

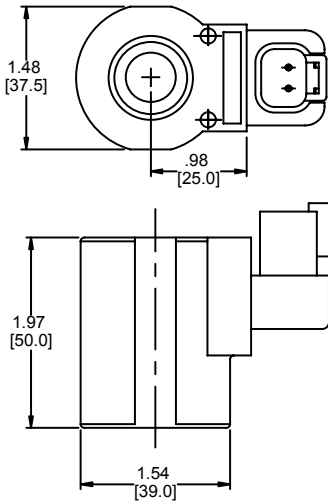


4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
 mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
 mail: tecnord@tecnord.com • www.tecnord.com

IMMERSION PROOF "D" TYPE "I" COILS



DESCRIPTION

1/2 inch (13 mm) I.D. Immersion Proof Coil.

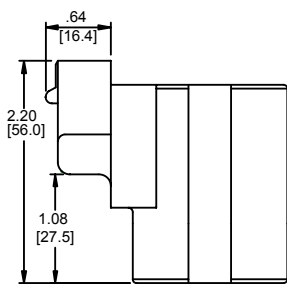
FEATURES

One piece encapsulated design that is:

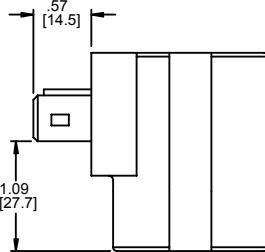
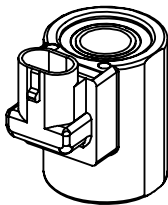
- Weatherproof
- Immersion proof
- Thermal shock / dunk tested
- No external metal shel

COIL SPECIFICATION

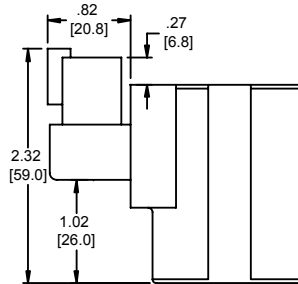
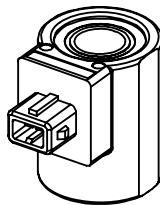
| | |
|---------------------------|--|
| Wattage | 24 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 70°F (21°C) ambient |
| Min Current for Actuation | 90% of rated current at room temperature |
| Magnet Wire Class | H or Better for all voltages |
| Temperature Range | -40° to 392°F (-40° to 200°C) |
| Encapsulation Material | Thermo-Plastic, resistant to moisture, caustic solutions, fungus, and vibrations |



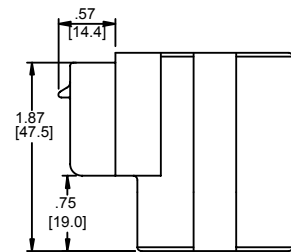
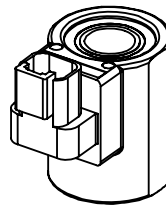
IA



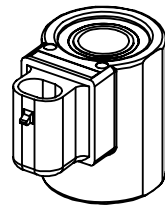
IJ



ID



IM



ORDERING INFORMATION

D - - -

Approximate Coil Weight: .49 lbs (.22 kg)

TERMINATIONS

- AMP Superseal - Integral
- Deutsch - Integral DT04-2P
- AMP Junior Timer - Integral
- Metri-Pack - Integral

- IA 12
- ID 24
- IJ
- IM

VOLTAGE

- 12 VDC / 2.0 Amp Yellow Lettering
- 24 VDC / 1.0 Amp Blue Lettering

NOTE: Pull type valves require nut 36202073 in lieu of standard nut. Push type valves require nut 36202071 in lieu of standard nut.

W7 / 2017

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
 mail: delta@delta-power.com • www.delta-power.com



Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
 mail: tecnord@tecnord.com • www.tecnord.com

IMMERSION PROOF "L" TYPE "I" COILS

DESCRIPTION

5/8 inch (16 mm) I.D. Immersion Proof Coil.

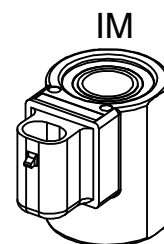
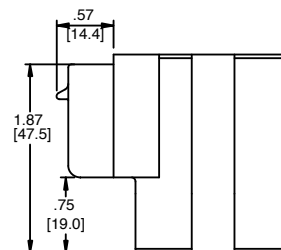
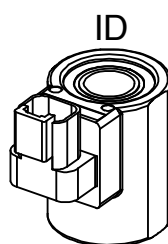
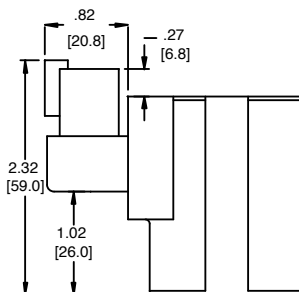
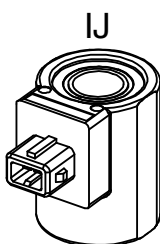
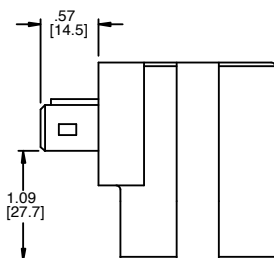
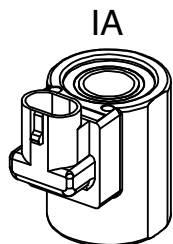
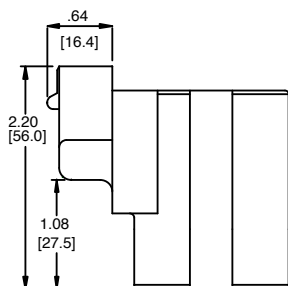
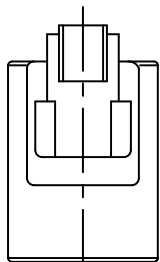
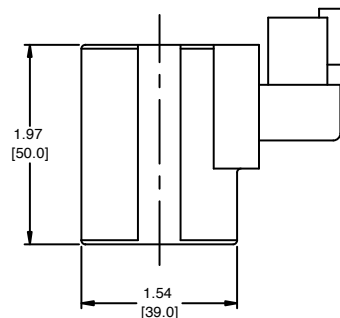
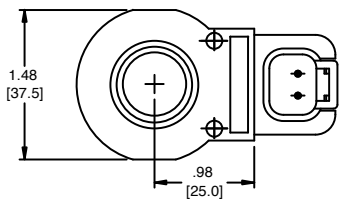
FEATURES

One piece encapsulated design that is:

- Weatherproof
- Immersion proof
- Thermal shock / dunk tested
- No external metal shel

COIL SPECIFICATION

| | |
|---------------------------|--|
| Wattage | 26 Watts Nominal |
| Duty Rating | Continuous Duty ±10% rated voltage at 120°F (49°C) ambient |
| Min Current for Actuation | 80% of rated current at room temperature |
| Magnet Wire Class | H or Better for all voltages |
| Temperature Range | -40° to 392°F (-40° to 200°C) |
| Encapsulation Material | Thermo-Plastic, resistant to moisture, caustic solutions, fungus, and vibrations |



ORDERING INFORMATION

| | | | | |
|-----------------------------|-----------|---|---|-----------|
| | L | - | - | |
| TERMINATIONS | | | | |
| AMP Superseal - Integral | IA | | | 12 |
| Deutsch - Integral DT04-2P | ID | | | 24 |
| AMP Junior Timer - Integral | IJ | | | |
| Metri-Pack - Integral | IM | | | |

| |
|-----------------------------------|
| VOLTAGE |
| 12 VDC / 2.2 Amp Yellow Lettering |
| 24 VDC / 1.1 Amp Blue Lettering |

Approximate Coil Weight: .49 lbs (.22 kg)

NOTE: Pull type valves require nut 36202073 in lieu of standard nut. Push type valves require nut 36202071 in lieu of standard nut.

WARNING: the specifications/application data shown in our catalogs and data sheets are intended only as a general guide for the product described (herein). Any specific application should not be undertaken without independent study, evaluation, and testing for suitability.



4484 Boeing Drive Rockford, IL 61109 • USA • Phone +1 (815) 397-6628 • Fax +1 (815) 397-2526
 mail: delta@delta-power.com • www.delta-power.com

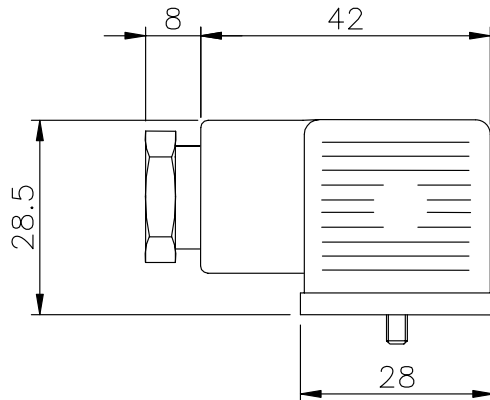


Via Malavolti, 36 • 41122 Modena • ITALY • Phone +39 (059) 254895 • Fax +39 (059) 253512
 mail: tecnord@tecnord.com • www.tecnord.com

COIL ACCESSORIES

CONNECTORS FOR THE DIN 43650 (HIRSCHMANN) TERMINATION

Standard connector dimensions
and with internal VDR resistor
against overvoltage peak



| TECHNICAL DATA | |
|-------------------------|---------------------|
| Number of poles | 2 + Ground |
| Max operating current | 10 A |
| Contact resistance | < 4 mOhm |
| Max. wire cross section | 1.5 mm ² |
| Cable diameter | 6 - 8 mm |
| Cable gland size | Pg 9 |
| Protection class | IP 65 |

| ORDERING INFORMATION | |
|----------------------|-------------|
| DESCRIPTION | CODE |
| Standard | 50.1004.002 |
| With VDR resistor | 50.1004.025 |