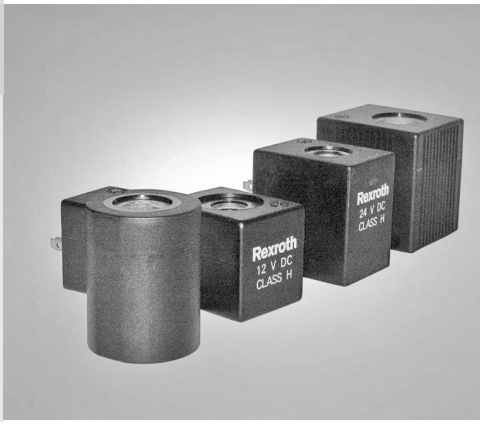
rexroth
A Bosch Company



# Coils - Connectors

RE 18325-90/01.24
Replaces: 12.22




## Coils
## Connectors

## Summary

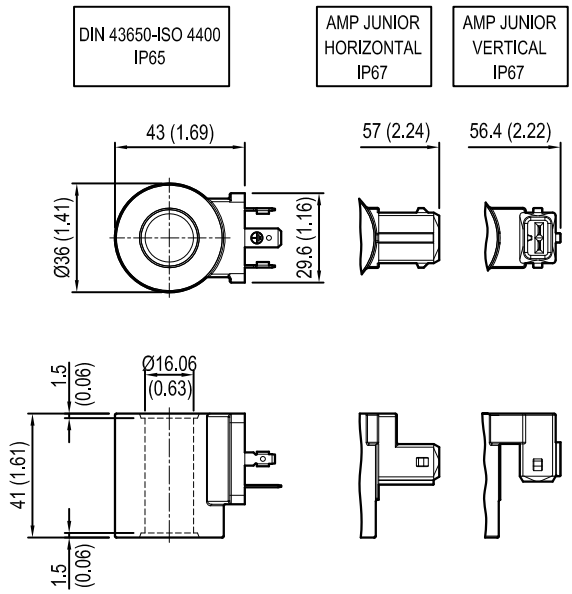

| Description | Page |
|---|---|
| **Coils** | |
| Coil D36 - CLASS H - 20 W | 2-3 |
| Coil D36 - CLASS H - 30 W | 4 |
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| Description | Page |
|---|---|
| **Connectors** | |
| Connector IP67 | 17-20 |

# Coils - Connectors

## COIL D36 - CLASS H - 20 W

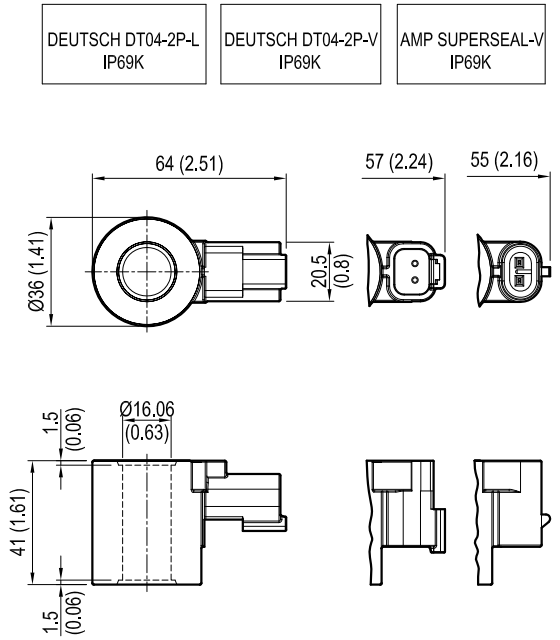
## OD.02.36 - X - Y - Z




[ mm / Inches ]

TECHNICAL DATA
Weight: 0.18 kg (0.40 lbs)
Power: 20 W
Heat insulation Class H: 180°C (356°F)
Storage ambient temperature range: -40 to 100 °C (-40 to 212 °F)
Operating ambient temperature range: -30 to 90 °C (-22 to 194 °F)
Further performance limits in terms of temperature and voltage fluctuations: please refer to data sheet of the solenoid valve where D36 coil is mounted.

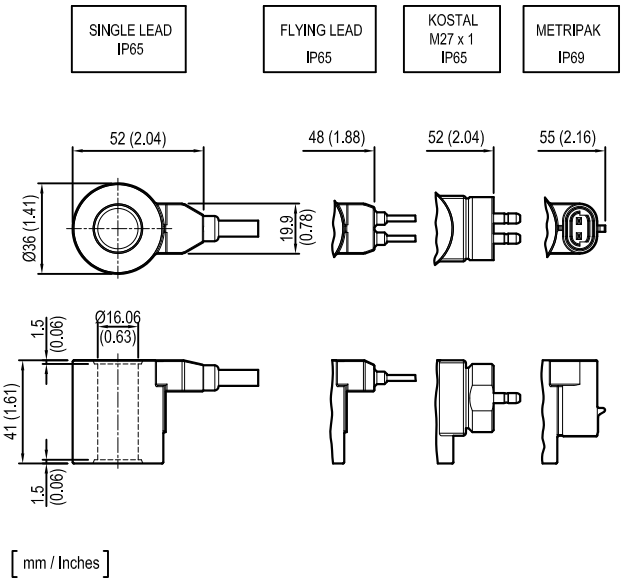
| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |
| 07 | 30 | AMP JUNIOR H | Standard | DC |
| 07 | 3P | AMP JUNIOR V | Standard | DC |
| 14 | 30 | DIN 43650 - ISO 4400 | Bidirectional Diode | DC |
| 15 | 30 | AMP JUNIOR H | Bidirectional Diode | DC |
| 15 | 3P | AMP JUNIOR V | Bidirectional Diode | DC |




[ mm / Inches ]

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 20 | 30 | DEUTSCH DT04-2P-L | Standard | DC |
| 20 | 3P | DEUTSCH DT04-2P-V | Standard | DC |
| 30 | 3P | AMP SUPERSEAL-V | Standard | DC |
| 22 | 30 | DEUTSCH DT04-2P-L | Bidirectional Diode | DC |
| 22 | 3P | DEUTSCH DT04-2P-V | Bidirectional Diode | DC |
| 32 | 3P | AMP SUPERSEAL-V | Bidirectional Diode | DC |

# Coils - Connectors




[ mm / Inches ]

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 0G | 03 | SINGLE LEAD * | Standard | DC |
| 02 | 03 | FLYING LEAD ** | Standard | DC |
| 03 | 30 | KOSTAL M27x01 | Standard | DC |
| 40 | 3P | METRIPAK | Standard | DC |
| 0H | 03 | SINGLE LEAD * | Bidirectional Diode | DC |
| 23 | 03 | FLYING LEAD ** | Bidirectional Diode | DC |
| 12 | 30 | KOSTAL M27x01 | Bidirectional Diode | DC |
| 41 | 3P | METRIPAK | Bidirectional Diode | DC |

* Lenght 300mm (11.8 inches). Ext. diameter 6.3mm (0.25 inches). External and internal Shealth Silicone rubber.
** Lenght 300mm

Note: Single lead and Flying lead coil also available with 1000 mm lenght; ordering code with Y=10 in place of Y=03

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | |
|---|---|---|---|---|---|
| | Nominal | aT = 20 °C (68 °F) | | I Max. | I Nom. |
| OB | 12 DC | 7.4 | 20 | 1.67 | 1.04 |
| OC | 24 DC | 28.4 | 20 | 0.83 | 0.54 |
| OD | 48 DC | 106.5 | 20 | 0.42 | 0.29 |
| AB | 72 DC | 262.5 | 20 | 0.27 | 0.20 |
| OU* | 96 DC | 451 | 20 | 0.21 | 0.14 |
| AH* | 205 DC | 2062 | 20 | 0.10 | 0.06 |

* OU and AH versions especially designed in cases of AC supply voltage (respectively for 110AC and 220 AC) to be used in conjunction with connector with circuit including wave rectifier. Ambient temperature range for OU and AH versions: -30°C / + 75°C

Note: diode available only for 12 V DC and 24 V DC coils.
Diode set at 27 V DC for 12 V DC coil and at 39 V DC for 24 V DC coil.

## Preferred types

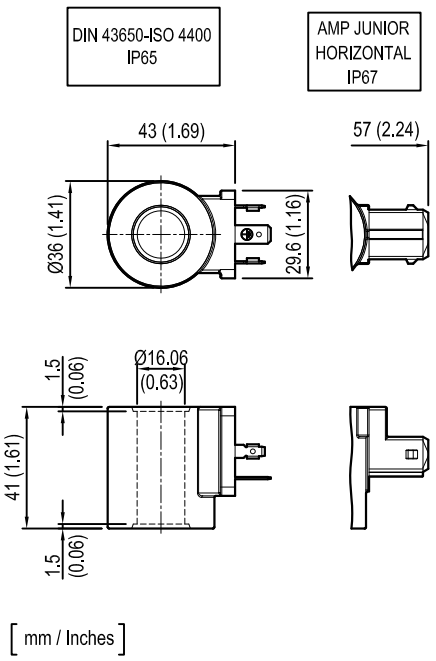
| Type | Material number |
|---|---|
| OD0236403POB00 | R901395221 |
| OD02360G03OB00 | R901435529 |
| OD02360G10OB00 | R901435530 |
| OD02360H03OB00 | R901435532 |
| OD02360H10OB00 | R901435536 |
| OD02360G03OC00 | R901435533 |
| OD02360G10OC00 | R901435523 |
| OD02360330OB00 | R901395048 |
| OD02360330OC00 | R901395057 |
| OD02360730OB00 | R901435508 |
| OD02361530OB00 | R901435507 |
| OD02360730OC00 | R901435506 |
| OD02361530OC00 | R901435494 |
| OD02360730OD00 | R901435488 |
| OD0236203POB00 | R901394391 |

Further types available by request

| Type | Material number |
|---|---|
| OD0236223POB00 | R901394397 |
| OD0236203POC00 | R901394393 |
| OD0236223POC00 | R901394399 |
| OD02360130OB00 | R901393412 |
| OD02361430OB00 | R901394119 |
| OD02360130OC00 | R901393577 |
| OD02361430OC00 | R901394225 |
| OD02360130OD00 | R901394117 |
| OD02360130OU00 | R901394229 |
| OD02360130AH00 | R901394231 |
| OD0236303POB00 | R901395209 |
| OD0236323POB00 | R901395211 |
| OD0236303POC00 | R901395213 |
| OD0236323POC00 | R901453107 |
| OD02362030AB00 | R930076171 |

# Coils - Connectors

## COIL D36 - CLASS H - 30 W




## OD.02.40 - X - Y - Z

TECHNICAL DATA
Weight: 0.18 kg (0.40 lbs)
Power: 30 W
Heat insulation Class H: 180°C (356°F)
Storage ambient temperature range: -40 to 100 °C (-40 to 212 °F)
Operating ambient temperature range: -30 to 60 °C (-22 to 140 °F)
Further performance limits in terms of temperature and voltage fluctuations: please refer to data sheet of the solenoid valve where D36 coil is mounted.

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |
| 20 | 30 | DTL | Standard | DC |
| 22 | 30 | DTL | Standard | DC |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | |
|---|---|---|---|---|---|
| | Nominal | aT = 20 °C (68 °F) | | I Max. | I Nom. |
| OB | 12 DC | 4,8 | 30 | 2,5 | 1,52 |
| OC | 24 DC | 18,3 | 30 | 1,22 | 0,81 |
| OD | 26 DC | 23 | 30 | 1,2 | 0,75 |
| OU | 14 DC | 7 | 30 | 2,1 | 1,38 |

## Preferred types

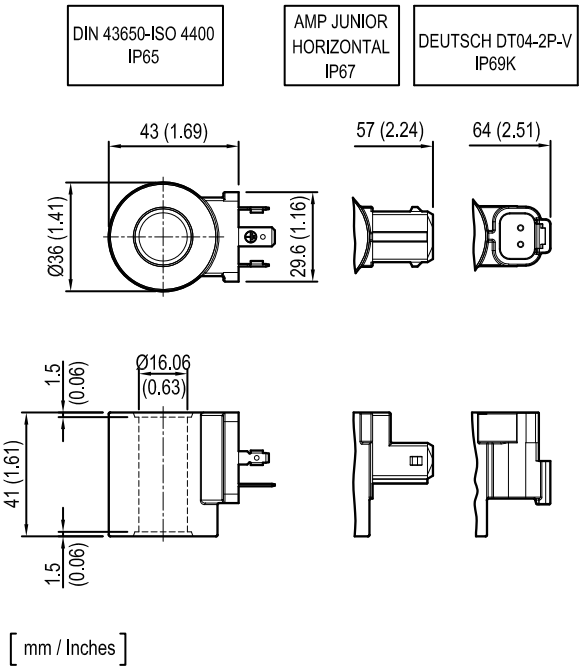
| Type | Material number |
|---|---|
| OD02400130OB00 | R930083672 |
| OD02400130OC00 | R930083673 |
| OD02400130OB00 | R930083672 |
| OD02400130OC00 | R930083673 |
| OD02400130AC00 | R930086215 |
| OD02402030OC00 | R930085969 |
| OD02402030OG00 | R930086216 |

| Type | Material number |
|---|---|
| OD02402030OB00 | R930085970 |
| OD02402230OB00 | R930086073 |
| OD02402230OC00 | R930086074 |
| OD02402230AC00 | R930086217 |
| OD02402230OC01 | R930086218 |
| | |
| | |

Further types available by request

# Coils - Connectors

## COIL D36 - CLASS H - 20 W - UL RECOGNIZED OD.02.U6 - X - Y - Z




[ mm / Inches ]

TECHNICAL DATA
Weight: 0.18 kg (0.40 lbs)
Power: 20 W
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+70°C (-22/+158°F)
Further performance limits in terms of temperature and voltage fluctuations: please refer to data sheet of the solenoid valve where D36 coil is mounted.

UL file number: MH48725

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |
| 07 | 30 | AMP JUNIOR H | Standard | DC |
| 20 | 3P | DEUTSCH DT04-2P-V | Standard | DC |

Note: UL D36 coil is function interchangeable with standard 20W D36 coil, except for restricted admissible ambient temperature range.

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | |
|---|---|---|---|---|---|
| | Nominal | aT = 20 °C (68 °F) | | I Max. | I Nom. |
| OB | 12 DC | 7.4 | 20 | 1.67 | 1.04 |
| OC | 24 DC | 28.4 | 20 | 0.83 | 0.54 |
| OD | 48 DC | 106.5 | 20 | 0.42 | 0.29 |
| OU* | 96 DC | 451 | 20 | 0.21 | 0.14 |
| AH* | 205 DC | 2062 | 20 | 0.10 | 0.06 |

***** OU and AH versions especially designed in cases of AC supply voltage (respectively for 110AC and 220 AC) to be used in conjunction with connector with circuit including wave rectifier.

For certification visit the website:
https://www.ul.com/services/digital-applications/ul-certification-database

## Preferred types

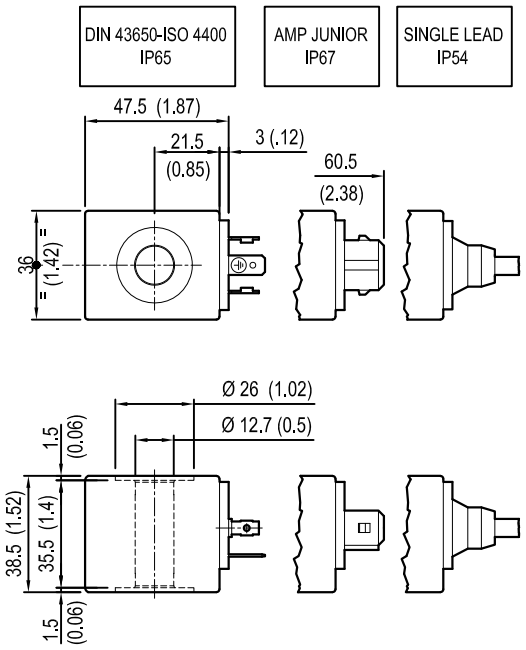
| Type | Material number |
|---|---|
| OD02U60130OB00 | R901435522 |
| OD02U60130OC00 | R901435521 |
| OD02U60130OD00 | R901440932 |
| OD02U60130OU00 | R901440933 |
| OD02U60130AH00 | R901440934 |

| Type | Material number |
|---|---|
| OD02U60730OB00 | R901435511 |
| OD02U60730OC00 | R901435510 |
| OD02U6203POB00 | R901435520 |
| OD02U6203POC00 | R901435519 |

Further types available by request

# Coils - Connectors

COIL S8-356 - CLASS H - 20 W OD.02.17 - X - Y - Z



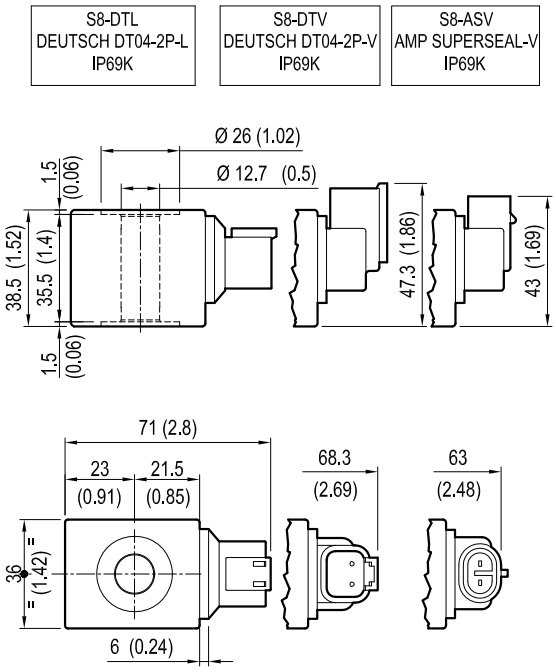

[ mm / Inches ]

TECHNICAL DATA
Weight: 0.18 kg (0.40 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+60°C (-22/+140°F)
Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC-RAC |
| 07 | 30 | AMP JUNIOR | Standard | DC |
| 0G | 03 | SINGLE LEAD | Standard | DC * |
| 14 | 30 | DIN 43650 - ISO 4400 | Bidirectionl Diode | DC |
| 15 | 30 | AMP JUNIOR | Bidirectional Diode | DC |
| 0H | 03 | SINGLE LEAD | Bidirectional Diode | DC * |

* Length 300mm (11.8 inches). Ext. diameter 6.3mm (0.25 inches). External and internal Shealth Silicone rubber.

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 7.2 | 20 | 1.7 | 1.2 | 105-110 (221-230) |
| OG | 14 DC | 9.0 | 20 | 1.6 | 1.1 | |
| OC | 24 DC | 28.2 | 20 | 0.9 | 0.6 | |
| AC | 26 DC | 33.6 | 20 | 0.8 | 0.5 | |
| AF | 30 DC | 44.1 | 20 | | | |
| OV | 24 RAC | 23.1 | 20 | 0.9 | - | 110-125 (230-257) |
| OW | 110 RAC | 478.3 | 20 | 0.2 | - | |




[ mm / Inches ]

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 20 | 30 | DEUTSCH DT04-2P-L | Standard | DC |
| 20 | 3P | DEUTSCH DT04-2P-V | Standard | DC |
| 30 | 3P | AMP SUPERSEAL-V | Standard | DC |
| 22 | 30 | DEUTSCH DT04-2P-L | Bidirectionl Diode | DC |
| 22 | 3P | DEUTSCH DT04-2P-V | Bidirectional Diode | DC |
| 32 | 3P | AMP SUPERSEAL-V | Bidirectional Diode | DC |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 7.2 | 20 | 1.7 | 1.2 | 105-110 (221-230) |
| OC | 24 DC | 28.2 | 20 | 0.9 | 0.6 | |
| AC | 26 DC | 33.6 | 20 | 0.8 | 0.5 | |

These coils have passed the THERMAL SHOCK DUNK TEST

# Coils - Connectors

## Preferred types (readily available)

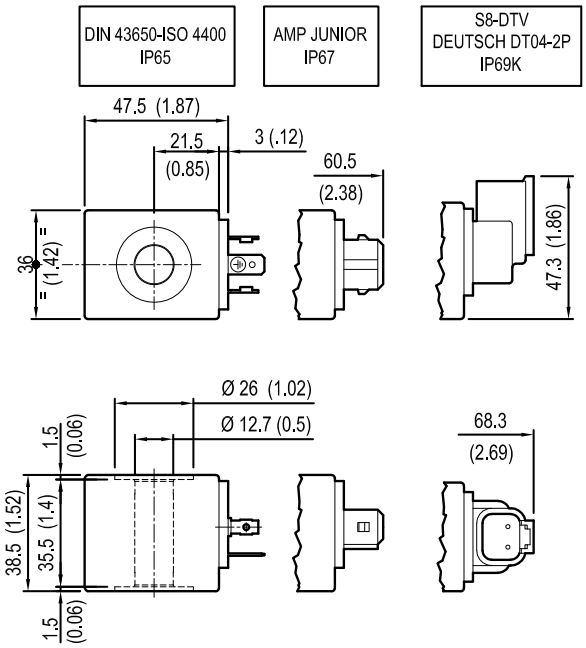
| Type | Material number |
|---|---|
| OD02170130AC00 | R901058832 |
| OD02170130OB00 | R901090821 |
| OD02170130OC00 | R901083065 |
| OD02170130OG00 | R901144215 |
| OD02170130OV00 | R901090820 |
| OD02170130OW00 | R901087981 |
| OD02170730AC00 | R934000494 |
| OD02170730OB00 | R901094604 |
| OD02170730OC00 | R901094607 |
| OD02170730OG00 | R934000498 |
| OD02170G03OB00 | R901100773 |
| OD02170G03OC00 | R901100775 |
| OD02171430OB00 | R901131889 |
| OD02171430OC00 | R901121821 |
| OD02171530AC00 | R901133139 |
| OD02171530OB00 | R901111032 |

| Type | Material number |
|---|---|
| OD02171530OC00 | R901125292 |
| OD02172030OB00 | R901094609 |
| OD02172030OC00 | R901094611 |
| OD0217203PAC00 | R934000509 |
| OD0217203POB00 | R901110014 |
| OD0217203POC00 | R901110015 |
| OD02172230OB00 | R901130433 |
| OD02172230OC00 | R901130401 |
| OD02172230OG00 | R934003033 |
| OD0217223POB00 | R901120671 |
| OD0217223POC00 | R901114602 |
| OD0217303PAC00 | R934000516 |
| OD0217303POB00 | R901110016 |
| OD0217323POB00 | R934000519 |
| OD02170H03OG00 | R934004360 |
| OD02170130AF00 | R934003029 |

Further types available by request

# Coils - Connectors

COIL S8-356 - CLASS H - 17 W OD.02.27 - X - Y - Z




TECHNICAL DATA

Weight: 0.18 kg (0.40 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+80°C (-22/+176°F)

Inlet voltage fluctuations must not exceed ±10% (not welded solenoid type) ±15% (other welded solenoid type) of nominal voltage to obtain correct operation and long life coils.

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |
| 07 | 30 | AMP JUNIOR | Standard | DC |
| 15 | 30 | AMP JUNIOR | Bidirectionl Diode | DC |
| 20 | 30 | DEUTSCH DT04-2P-L | Standard | DC |
| 20 | 3P | DEUTSCH DT04-2P-V | Standard | DC |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 8.4 | 17 | 1.4 | 1.0 | 85-90 (185-194) |
| OG | 14 DC | 11.4 | 17 | 1.2 | 0.8 | |
| OC | 24 DC | 33.7 | 17 | 0.7 | 0.5 | |

## Preferred types (readily available)

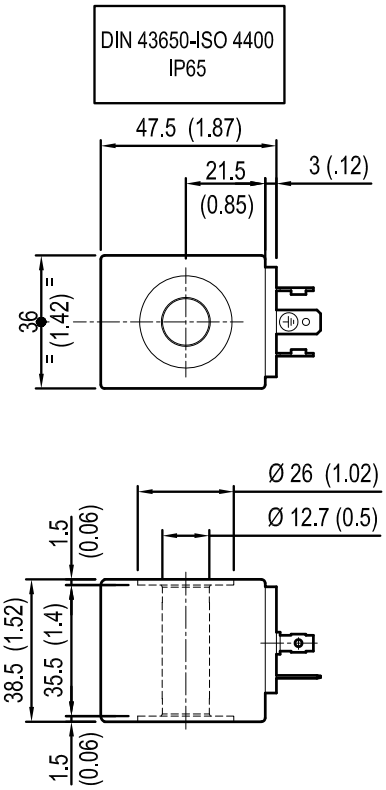
| Type | Material number |
|---|---|
| OD02270730OG00 | R934003645 |
| OD02271530OG00 | R934003888 |
| OD02272030OB00 | R934003647 |
| OD02272030OG00 | R934003648 |
| OD02272030OC00 | R934003649 |
| OD0227203POB00 | R934003650 |
| OD0227203POG00 | R934003651 |
| OD0227203POC00 | R934003652 |

| Type | Material number |
|---|---|

Further types available by request

# Coils - Connectors

COIL S8-356 - G2 - CLASS H - 19.5 W OD.02.28 - X - Y - Z




TECHNICAL DATA
Weight DC: 0.20 kg (0.44 lbs)
Weight RAC: 0.19 kg (0.42 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+60°C (-22/+140°F)

Inlet voltage fluctuations must not exceed ±10%

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC - RAC |
| | | | | |
| | | | | |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| GV | 230 DC | 2697.73 | 19.5 | * 0.075 | * 0.058 | 95-100 (205-215) |
| GA | 230 RAC | 2179.39 | 19.5 | * 0.087 | * 0.064 | |
| | | | | | | |

* Note: current valves with Ta= 60 °C (140 °F)

[ mm / Inches ]

## Preferred types (readily available)

| Type | Material number |
|---|---|
| OD02280130GA00 | R934004894 |
| OD02280130GV00 | R934004895 |

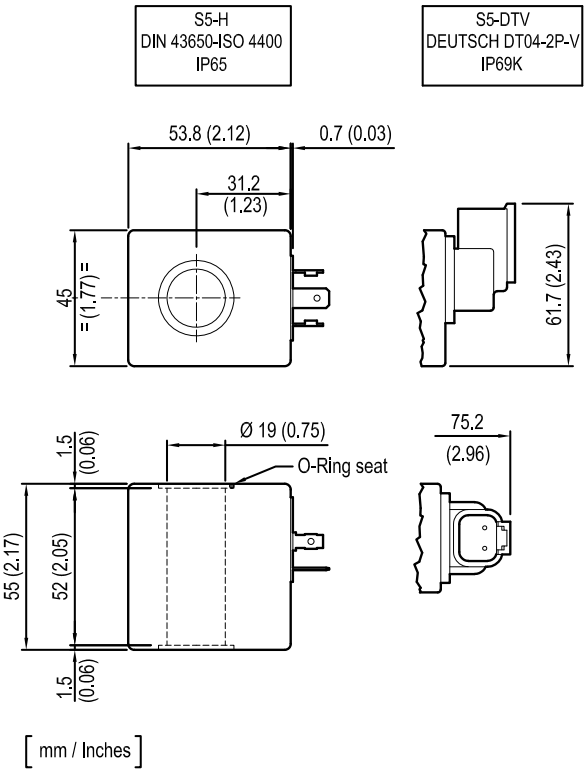
| Type | Material number |
|---|---|
| | |

Further types available by request

# Coils - Connectors

## COIL S5 - CLASS H - 23 W

OD.02.09 - X - Y - Z - 01




TECHNICAL DATA

Weight: 0.47 kg (1.04 lbs)

Heat insulation Class H: 180°C (356°F)

Ambient temperature range: -30/+70°C (-22/+158°F)

Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |
| 20 | 3P | DEUTSCH DT-04-2P-V | Standard | DC |
| 22 | 3P | DEUTSCH DT-04-2P-V | Bidirectional Diode | DC |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 6.2 | 23 | 1.9 | 1.4 | 92-96 (198-205) |
| OC | 24 DC | 24.9 | 23 | 1.0 | 0.7 | |

## Preferred types (readily available)

| Type | Material number |
|---|---|
| OD02090130OB01 | R901090827 |
| OD02090130OC01 | R901090828 |
| OD0209203POB01 | R901110011 |

| Type | Material number |
|---|---|
| OD0209203POC01 | R901110012 |
| OD0209223POB01 | R901090829 |
| OD0209223POC01 | R901110013 |

Further types available by request

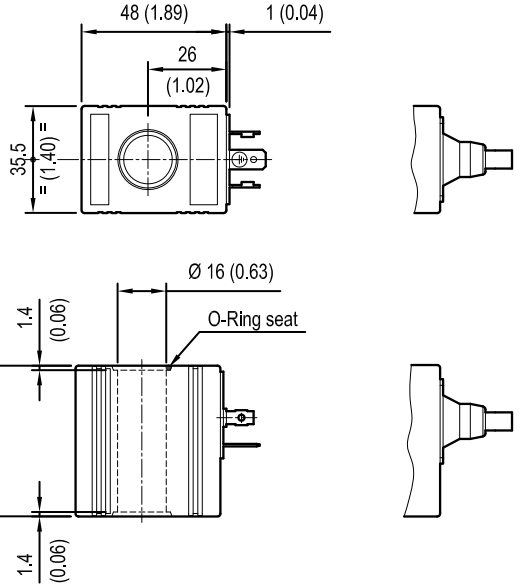
# Coils - Connectors

## COIL S7 - CLASS H - 30 W

## OD.02.07 - X - Y - Z - 02

S7-H
DIN 43650-ISO 4400
IP65

SINGLE LEAD
IP54




[ mm / Inches ]

TECHNICAL DATA

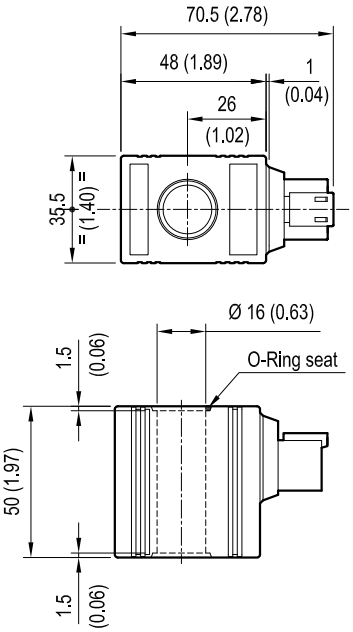
Weight: 0.33 kg (0.73 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+60°C (-22/+140°F)
Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |
| 0H | 02 | SINGLE LEAD | Bidirectional Diode | DC * |

* Length 200 mm (7.87 inches). Ext. diameter 0.53 mm (0.02). External and internal Shealth Silicone rubber.

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 4.8 | 30 | 2.5 | 1.8 | 120-140 (248-284) |
| OC | 24 DC | 18.8 | 30 | 1.2 | 0.9 | |
| | | | | | | |
| | | | | | | |

S7-D
DEUTSCH DT04-2P
IP69K




[ mm / Inches ]

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 20 | 30 | DEUTSCH DT04-2P | Standard | DC |
| 22 | 30 | DEUTSCH DT04-2P | Bidirectionl Diode | DC |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 4.8 | 30 | 2.5 | 1.8 | 120-140 (248-284) |
| OG | 14 DC | 6.5 | 30 | 2.1 | 1.4 | |
| OC | 24 DC | 18.8 | 30 | 1.2 | 0.9 | |

Available on request: different voltages, working duty Ed 50 %

These coils have passed the THERMAL SHOCK DUNK TEST

Note: for general information see “Section 7 - Techinal Data”

## Preferred types (readily available)

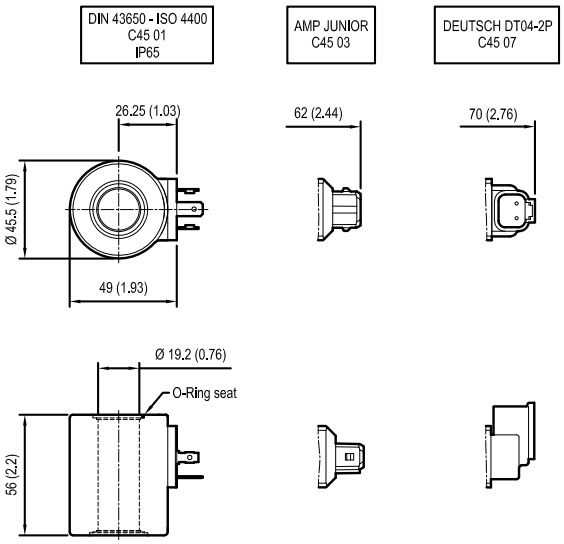
| Type | Material number |
|---|---|
| OD02070130OB02 | R901090824 |
| OD02070130OC02 | R901090825 |
| OD02072030OB02 | R901094589 |
| OD02072030OG02 | R934000349 |
| OD02072230OG02 | R934000355 |

| Type | Material number |
|---|---|
| OD02072030OC02 | R901094594 |
| OD02072230OB02 | R901094595 |
| OD02072230OC02 | R901094597 |
| OD02070H02OB02 | R934004373 |

Further types available by request

# Coils - Connectors

## COIL C45 - CLASS H




[ mm / Inches ]

TECHNICAL DATA

Weight: 0.34 kg (0.75 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+60°C (-22/+140°F)
Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

Connection

DIN 43650 - ISO 4400

| Description | Voltage V | Power W | Current A to 20°C | Resistance Ω ±7% to 20°C | Code | Material Number |
|---|---|---|---|---|---|---|
| C45 01 12DC | 12 DC | 33 | 2.8 | 4.2 | 271-0417 | R933000026 |
| C45 01 24DC | 24 DC | 33 | 1.4 | 17.1 | 271-0418 | R933000034 |

Connection

AMP JUNIOR

| Description | Voltage V | Power W | Current A to 20°C | Resistance Ω ±7% to 20°C | Code | Material Number |
|---|---|---|---|---|---|---|
| C45 03 12DC | 12 DC | 33 | 2.8 | 4.2 | 271-041710 | R933000027 |
| C45 03 24DC | 24 DC | 33 | 1.4 | 17.1 | 271-041725 | R933003630 |

Connection

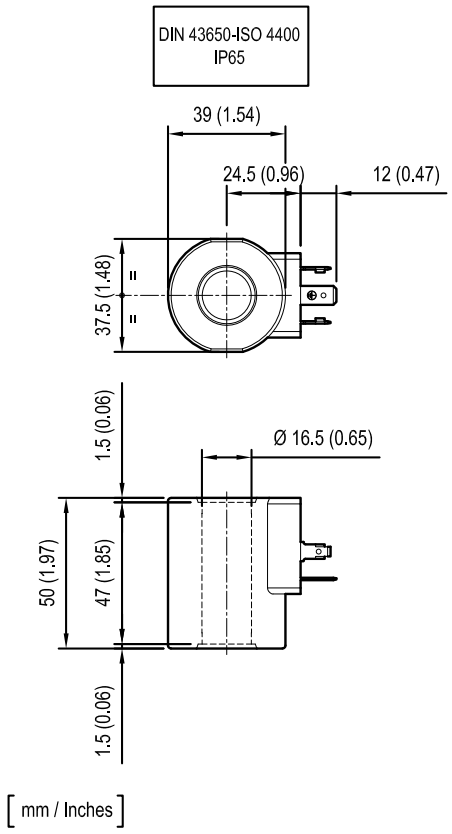
DEUTSCH DT04-2P

| Description | Voltage V | Power W | Current A to 20°C | Resistance Ω ±7% to 20°C | Code | Material Number |
|---|---|---|---|---|---|---|
| C45 07 12DC | 12 DC | 33 | 2.8 | 4.2 | 271-041717 | R933000030 |
| C45 07 24DC | 24 DC | 33 | 1.4 | 17.1 | 271-041719 | R933000032 |

# Coils - Connectors

COIL R7 - CLASS H - 18 W

OD.02.21 - X - Y - Z - 00




TECHNICAL DATA

Weight: 0.31 kg (0.71 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+80°C (-22/+284°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 01 | 30 | DIN 43650 - ISO 4400 | Standard | DC |

| Z | Voltage V | Resistance Ohm (±7%) | Power W | Current A | | ΔT °C (°F) |
|---|---|---|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil | Cold coil | Hot coil | 1 hour energized at Ta=20-25°C (68-77°F) Nominal voltage |
| OB | 12 DC | 7.9 | 18 | 1.5 | 1.1 | 90-105 (194-221) |
| | | | | | | |

## Preferred types (readily available)

| Type | Material number |
|---|---|
| OD02210130OB00 | R934001302 |

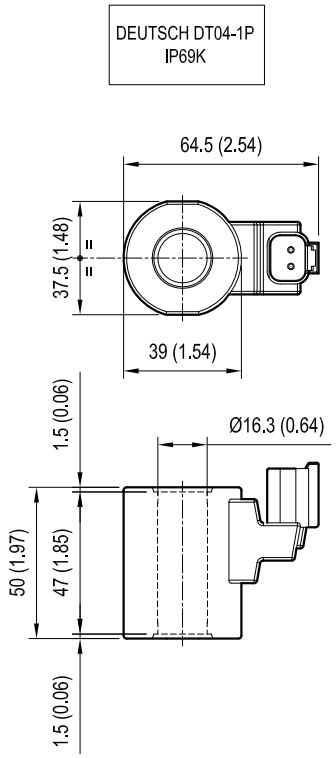
| Type | Material number |
|---|---|

Further types available by request

# Coils - Connectors

COIL R7 - CLASS H - 28 W

OD.02.22 - X - Y - Z - 00




[ mm / Inches ]

TECHNICAL DATA

Weight: 0.31 kg (0.71 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -20/+50°C (-4/+122°F)

| X | Y | Connections | Circuit | Voltage |
|---|---|---|---|---|
| 31 | 3P | DEUTSCH DT04-28 | Single diode | DC |

| Z | Voltage V | Resistance Ohm (±7%) | Power W |
|---|---|---|---|
| | Nominal | Ta = 20-25°C (68-77°F) | Cold coil |
| OC | 24 DC | 20.4 | 28 |
| | | | |

## Preferred types (readily available)

| Type | Material number |
|---|---|
| OD0222313POC01 | R934005309 |

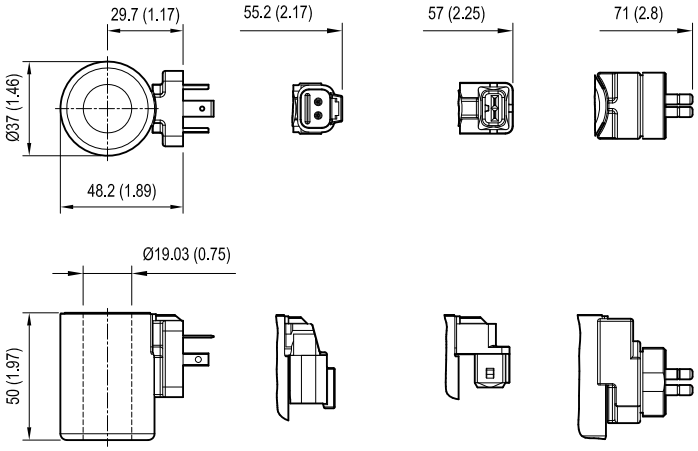
| Type | Material number |
|---|---|

Further types available by request

# Coils - Connectors

COIL GZ37 ON/OFF - CLASS H - 22W 37 - X - 22G - Y 00

DIN EN 175301 - 803 IP65 | DEUTSCH DT04 - 2P C37 | AMP JUNIOR C37 | KOSTAL M27x1 C37




[mm / Inches]

TECHNICAL DATA

Weight: 0.24 kg (0.53 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -40/+110°C (-40/+230°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.
Coils are not equipped with suppression diode.
Coating to DIN 50962 - Fe // ZnNi with thick film passivation. (Salt spray test to DIN 50021 720 h)

| X | Connection | Type of protection |
|---|---|---|
| C4 | AMP JUNIOR TIMER | IP 66 (IP69K with connector R901022127) see RE08006 |
| K40 | DT04-2P DEUTSCH | IP 69K |
| K4 | DIN 43650 - ISO4400 | IP65 |
| K46 | KOSTAL | IP65 |

| Y | Voltage V | Resistance Ohm ± 5% | Power W |
|---|---|---|---|
| | Nominal | T= 20°C (68°F) | T= 20° (68°F) Nominal Voltage |
| 12 | 12 DC | 6.4 | 22 |
| 24 | 24 DC | 25.8 | 22 |
| 48 | 48 DC | 101 | 22 |
| 96 | 96 DC | 387 | 22 |
| 205 | 205 DC | 1870 | 22 |

## Preferred types

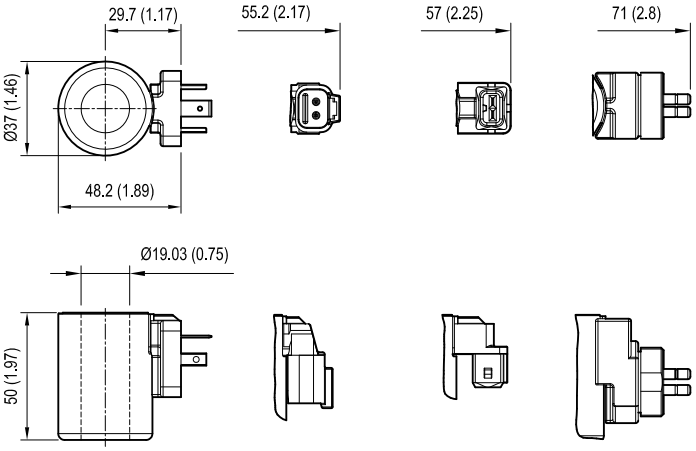
| Type | Material number |
|---|---|
| 37-C4-22G1200 | R900315818 |
| 37-C4-22G2400 | R900315819 |
| 37-K40-22G1200 | R900729189 |
| 37-K40-22G2400 | R900729190 |
| 37-K4-22G1200 | R900991678 |
| 37-K4-22G2400 | R900991121 |

| Type | Material number |
|---|---|
| 37-K4-22G4800 | R901037025 |
| 37-K4-24G9600 | R900704587 |
| 37-K4-22G20500 | R900704588 |
| 37-K46-22G1200 | R901269304 |
| 37-K46-22G2400 | R901237400 |

# Coils - Connectors

## COIL GP37 PROPORTIONAL - CLASS H 37 - X - RY - Y 00

DIN EN 175301 - 803 IP65 | DEUTSCH DT04 - 2P C37 | AMP JUNIOR C37 | KOSTAL M27x1 C37




[mm / Inches]

TECHNICAL DATA

Weight: 0.24 kg (0.53 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -40/+110°C (-40/+230°F)
Inlet voltage fluctuations must not exceed ±15% of nominal voltage to obtain correct operation and long life coils.
Coils are not equipped with suppression diode.
Coating to DIN 50962 - Fe // ZnNi with thick film passivation. (Salt spray test to DIN 50021 720 h)
Recommended dither frequency (PWM) 120 Hhz

| X | Connection | Type of protection |
|---|---|---|
| C4 | AMP JUNIOR TIMER | IP 66 (IP69K with connector R901022127) see RE08006 |
| K40 | DT04-2P DEUTSCH | IP 69K |
| K4 | DIN 43650 - ISO4400 | IP65 |
| K46 | KOSTAL | IP65 |

| Y | Nominal Voltage (V) | Resistance at 20°C / 68°F ± 5% (Ohm) | Resistance max. hot valve (Ohm) | Max. control current I max. (mA) | Minimum terminal voltage to get I max. at max. hot resistance (V) |
|---|---|---|---|---|---|
| 2,3 | 12 DC | 2.3 | 3.8 | 1760 | 6.7 |
| 4,8 | 24 DC | 4.8 | 7.9 | 1200 | 9.5 |
| 11,5 | 24 DC | 11.5 | 18.5 | 800 | 14.5 |

## Preferred types

| Type | Material number |
|---|---|
| 37-C4-R11,500 | R901049963 |
| 37-C4-R2,300 | R901003044 |
| 37-C4-R4,800 | R901003026 |
| 37-K40-R11,500 | R901050010 |
| 37-K40-R2,300 | R901003055 |
| 37-K40-R4,800 | R901003053 |

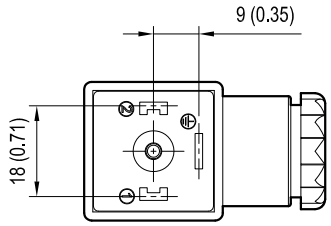
| Type | Material number |
|---|---|
| 37-K4-R11,500 | R901049962 |
| 37-K4-R2,300 | R901002932 |
| 37-K4-R4,800 | R901002319 |
| 37-K46-R11,500 | R901117075 |
| 37-K46-R2,300 | R901103949 |
| 37-K46-R4,800 | R901103947 |

# Coils - Connectors

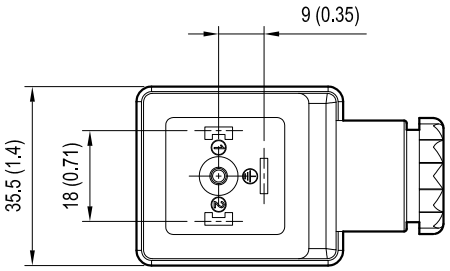
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

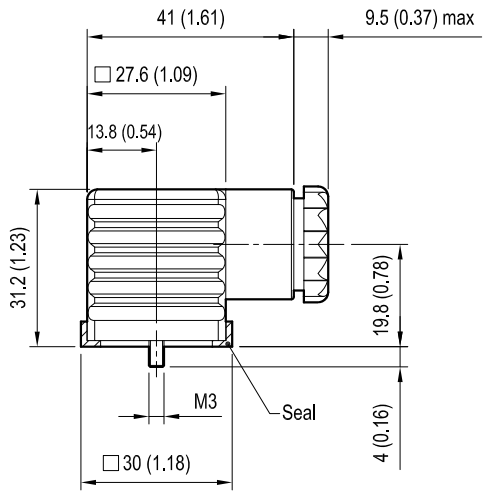
| | | | |
|---|---|---|---|
| Ambient temperature | - Standard | °C | - 20 to + 100 |
| | -With indicator lamp/rectifier | °C | -20 to + 60 |
| Type of protection according to DIN 40050 | | | IP67 with cable socket mounted and locked |
| Operating voltage | | V | Choose the proper ordering code according to the circuit |
| Maximum operating current | - Standard | A | 16 |
| | - With rectifier | A | 1 or 3 |
| Current consumption of LED | | mA | approx. 10 |
| LED | | | Red |
| Number of pins | | | 2 + PE |
| Clamping range for cables having an outer diameter of | | mm | 5, up to 10 |
| Cable entry | | | Pg9 / Pg11 (unified) |
| Maximum cable cross-section | | $mm^2$ | 1.5 |

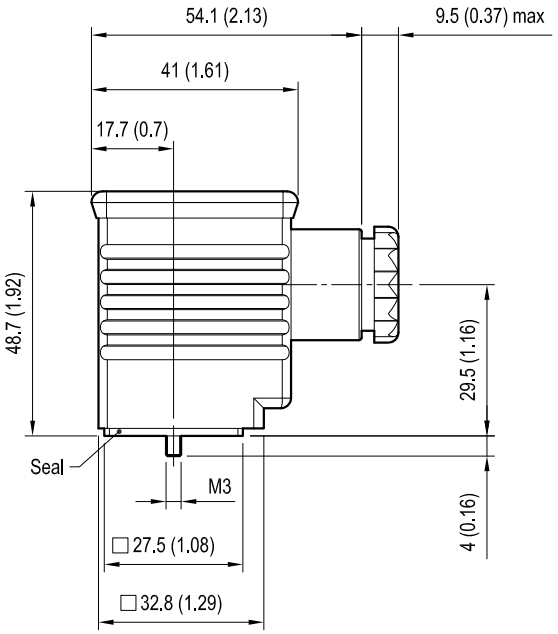
Type 1




Type 2



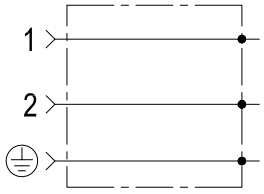




mm / Inches

# Coils - Connectors

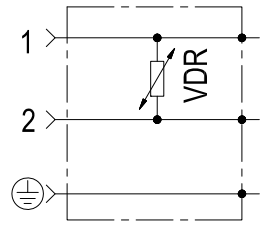
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

## STANDARD CIRCUIT



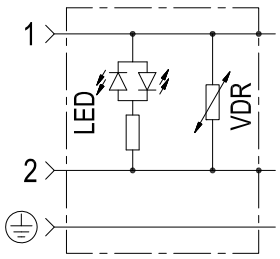

| Colour | Valve side | Cable entry | Type connector | Code | Material number |
|---|---|---|---|---|---|
| black | B | Pg9 / Pg11 | type 1 | OD016901000000 | R934004344 |
| grey | A | Pg9 / Pg11 | type 1 | OD016901000003 | R934004346 |

## CIRCUIT WITH VDR




| Voltage V AC \| DC | Colour | Valve side | Cable entry | Type connector | Code | Material number |
|---|---|---|---|---|---|---|
| 12 | black | A/B | Pg9 / Pg11 | type 1 | OD01690700OB00 | R934004361 |
| 24 | black | A/B | Pg9 / Pg11 | type 1 | OD01690700OC00 | R934004362 |
| 115 | black | A/B | Pg9 / Pg11 | type 1 | OD01690700OE00 | R934004363 |
| 230 | black | A/B | Pg9 / Pg11 | type 1 | OD01690700OF00 | R934004364 |

## CIRCUIT WITH VDR + LED

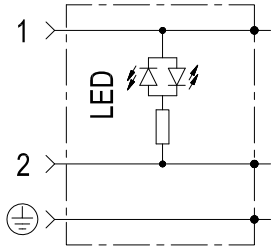



| Voltage V AC \| DC | Colour | Valve side | Cable entry | Led colour | Type connector | Code | Material number |
|---|---|---|---|---|---|---|---|
| 12 | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01692100OB00 | R934004370 |
| 24 | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01692100OC00 | R934004371 |

# Coils - Connectors

CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

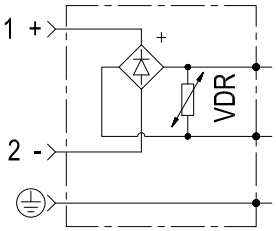
## CIRCUIT WITH LED




| Voltage V AC | Voltage V DC | Colour | Valve side | Cable entry | Led colour | Type connector | Code | Material number |
|---|---|---|---|---|---|---|---|---|
| 12 | | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01690300OB00 | R934004354 |
| 24 | | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01690300OC00 | R934004355 |
| 230 | | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01690300OF00 | R934004356 |

## CIRCUIT WITH VDR + WAVE RECTIFIER

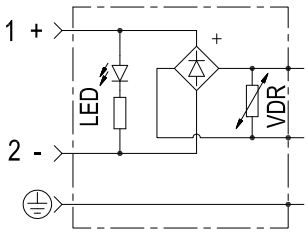
Note: for diode with capacity max 1 Amp,
suitable only for S8-356 coils.




| Voltage V AC | Voltage V DC | Diode Capacity I max | Colour | Valve side | Cable entry | Type connector | Code | Material number |
|---|---|---|---|---|---|---|---|---|
| 115 | / | 1 A | black | A/B | Pg9 / Pg11 | type 1 | OD01690201OW00 | R934004352 |
| 230 | / | 1 A | black | A/B | Pg9 / Pg11 | type 1 | OD01690201OZ00 | R934004353 |
| 24 | / | 3 A | black | A/B | Pg9 / Pg11 | type 2 | OD01690200OV00 | R934004349 |
| 115 | / | 3 A | black | A/B | Pg9 / Pg11 | type 2 | OD01690200OW00 | R934004350 |
| 230 | / | 3 A | black | A/B | Pg9 / Pg11 | type 2 | OD01690200OZ00 | R934004351 |

## CIRCUIT WITH VDR + WAVE RECTIFIER + LED

Note: for diode with capacity max 1 Amp,
suitable only for S8-356 coils.

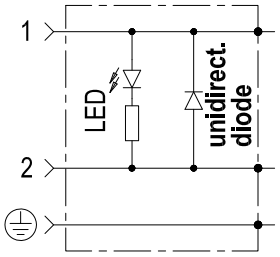



| Voltage V AC | Voltage V DC | Diode Capacity I max | Colour | Valve side | Cable entry | Led colour | Type connector | Code | Material number |
|---|---|---|---|---|---|---|---|---|---|
| 115 | / | 1 A | trasparent | A/B | Pg9 / Pg11 | red | type 1 | OD01691901OW00 | R934004369 |
| 230 | / | 3 A | trasparent | A/B | Pg9 / Pg11 | red | type 2 | OD01691900OZ00 | R934004367 |

# Coils - Connectors

CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

CIRCUIT WITH UNIDIRECTIONAL DIODE +LED




| Voltage V | | Colour | Valve side | Cable entry | Led colour | Type connector | Code | Material number |
|---|---|---|---|---|---|---|---|---|
| AC | DC | | | | | | | |
| / | 12 | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01691000OB00 | R934004365 |
| / | 24 | transparent | A/B | Pg9 / Pg11 | red | type 1 | OD01691000OC00 | R934004366 |

Bosch Rexroth Oil Control S.p.A.
Via Leonardo da Vinci 5
P.O. Box no. 5
41015 Nonantola – Modena, Italy
Tel. +39 059 887 611
Fax +39 059 547 848
compact-hydraulics-cv@boschrexroth.com
www.boschrexroth.com\compacthydraulics

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Subject to change.