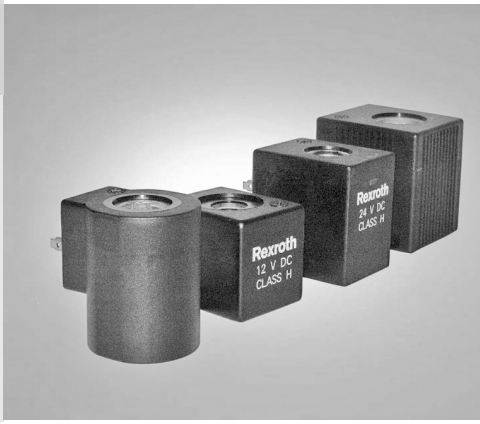
Rexroth
Bosch Group

Coils - Connectors

RE 18325-90/09.11
Replaces: RE 18325-90/06.11

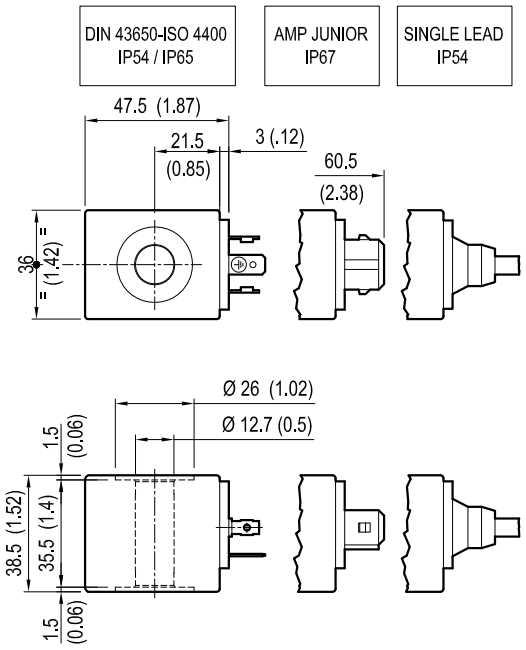


Coils
Connectors

Summary

Coils - Connectors

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



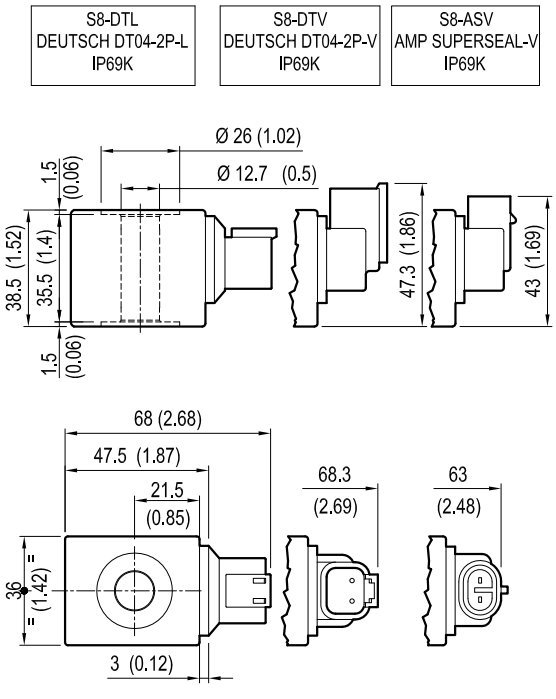
[mm / Inches]

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	
OV	24 RAC	23.1	20	0.9	-	110-125 (230-257)
OW	110 RAC	478.3	20	0.2	-	
OZ	220 RAC	1919.9	20	0.1	-	



[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)

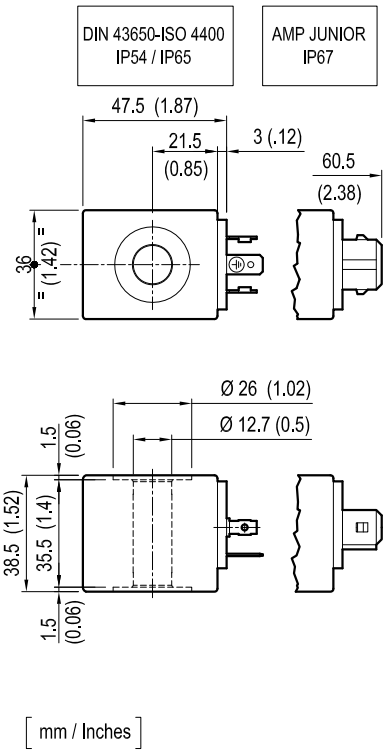
Type	Material number
OD02170130AC00	R901058832
OD02170130OB00	R901090821
OD02170130OC00	R901083065
OD02170130OG00	R901144215
OD02170130OV00	R901090820
OD02170130OW00	R901087981
OD02170130OZ00	R901085466
OD02170730AC00	R934000494
OD02170730OB00	R901094604
OD02170730OC00	R901094607
OD02170730OG00	R934000498
OD02170G03OB00	R901100773
OD02170G03OC00	R901100775
OD02171430OB00	R901131889
OD02171430OC00	R901121821
OD02171530AC00	R901133139

Type	Material number
OD02171530OB00	R901111032
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

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

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

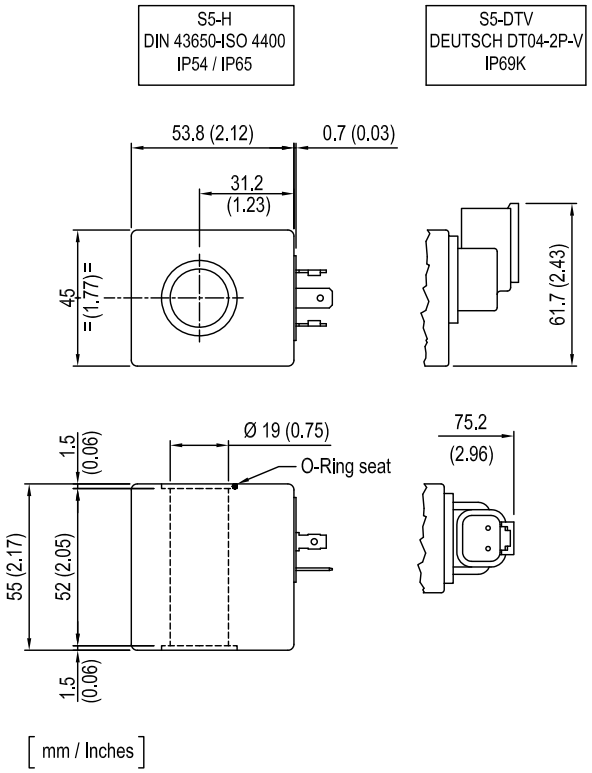
Type	Material number

Further types available by request

Coils - Connectors

COIL S5 - CLASS H - 20 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

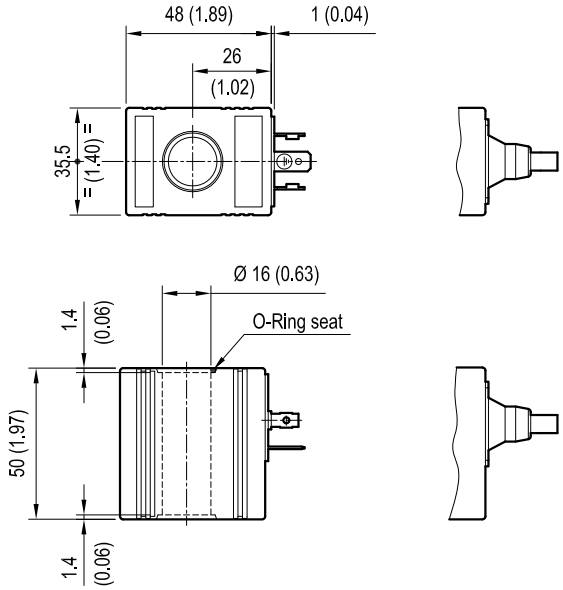
Coils - Connectors

COIL S7 - CLASS H - 30 W

OD.02.07 - X - Y - Z - 02

S7-H
DIN 43650-ISO 4400
IP54 / IP65

SINGLE LEAD
IP54



mm / Inches

TECHNICAL DATA

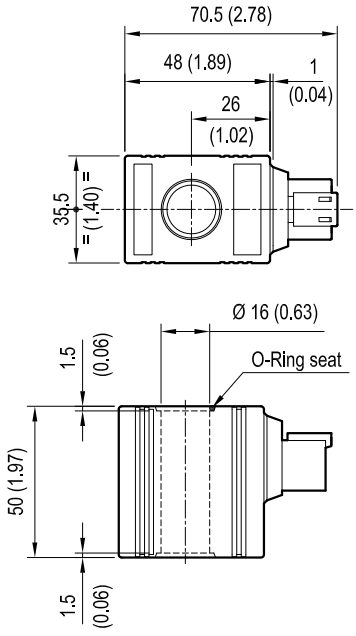
Weight: 0.33 kg (0.73 lbs)
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+60°C (-22/+140°F)
Inlet voltage fluctuations must not exceed ±10% of nominal voltage to obtain correct operation and long life coils.

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)

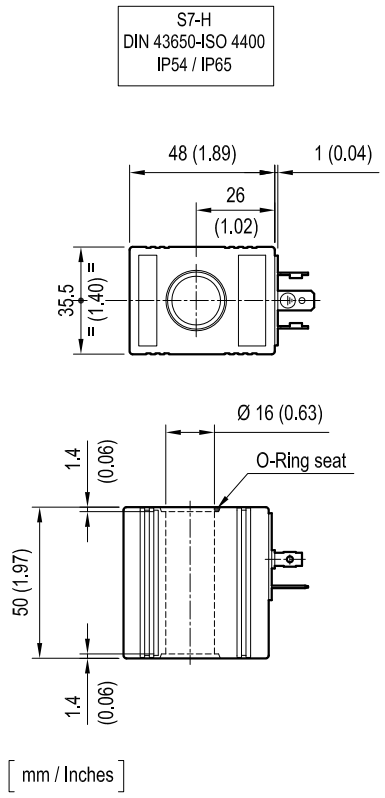
Type	Material number
OD02070130OB02	R901090824
OD02070130OC02	R901090825
OD02072030OB02	R901094589
OD02072030OG02	R934000349
OD02072230OG02	R934000355

Type	Material number
OD02072030OC02	R901094594
OD02072230OB02	R901094595
OD02072230OC02	R901094597
OD02070H02OB02	R934004373

Further types available by request

Coils - Connectors

COIL S7 - CLASS H - 26 W OD.02.37 - X - Y - Z - 02



TECHNICAL DATA

Weight: 0.33 kg (0.73 lbs)
Encapsulating material: IXEF
Heat insulation Class H: 180°C (356°F)
Ambient temperature range: -30/+80°C (-22/+176°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	5.5	26	2.2	1.6	100-120 (212-248)
OC	24 DC	2.9	26	1.1	0.8	

Preferred types

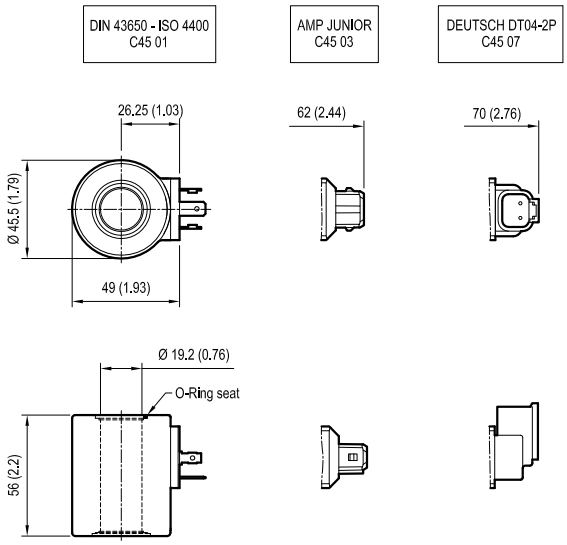
Type	Material number
OD02370130OC02	R934003700

Type	Material number

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

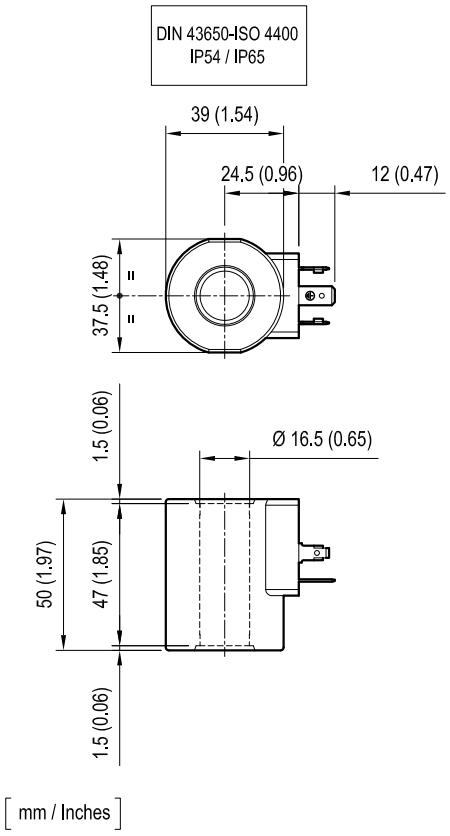
Description	Voltage V	Power W	Current A to 20°C	Resistance Ω ±7% to 20°C	Code	Material Number
C45 03 12DC	12 DC	33	2.8	4.2	271-041710	R933000027
C45 03 24DC	24 DC	33	1.4	17.1	271-041725	R933003630

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

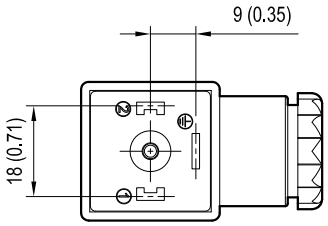
Further types available by request

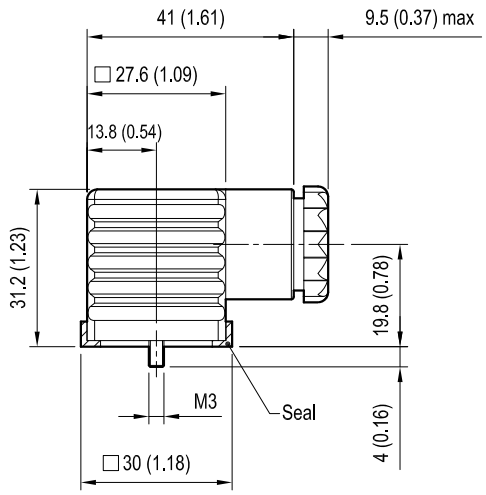
Coils - Connectors

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

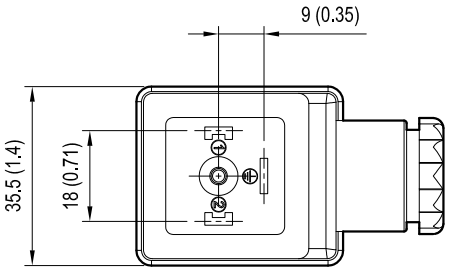
Ambient temperature	- Standard	°C	- 20 to + 100
	-With indicator lamp/rectifier	°C	-20 to + 60
Type of protection according to DIN 40050			IP67 with cable socket mounted and locked
Operating voltage		V	Choose the proper ordering code according to the circuit
Maximum operating current	- Standard	A	16
	- 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

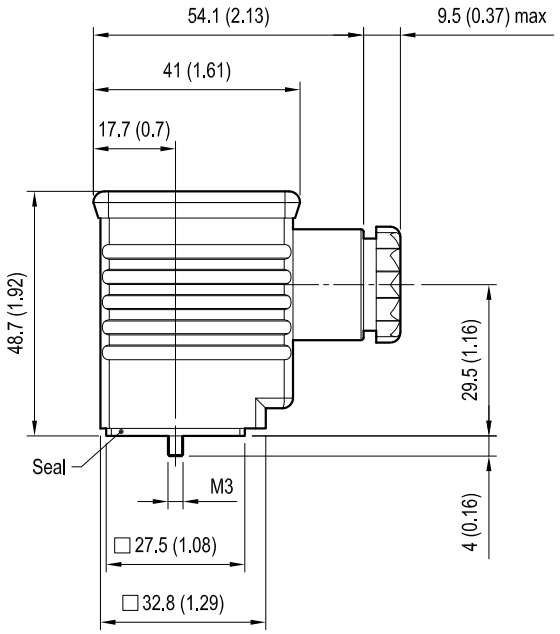
Type 1





Type 2



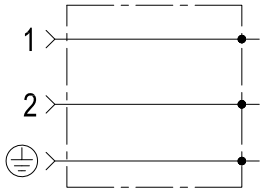


mm / Inches

Coils - Connectors

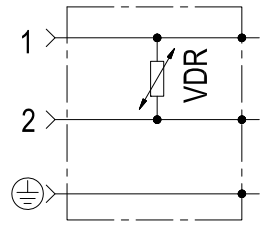
CONNECTOR IP67 - EN 175000 (DIN 4350-A) / ISO 4400

STANDARD CIRCUIT



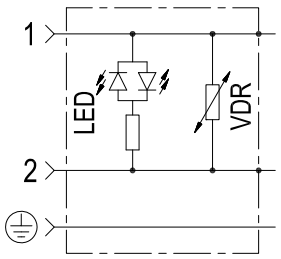
Colour	Valve side	Cable entry	Type connector	Code	Material number
black	B	Pg9 / Pg11	type 1	OD016901000000	R934004344
grey	A	Pg9 / Pg11	type 1	OD016901000003	R934004346

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

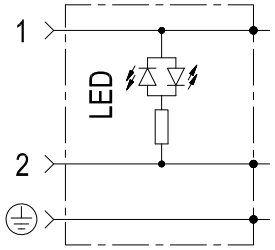


Voltage V AC | DC	Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
12	transparent	A/B	Pg9 / Pg11	red	type 1	OD01692100OB00	R934004370
24	transparent	A/B	Pg9 / Pg11	red	type 1	OD01692100OC00	R934004371

Coils - Connectors

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

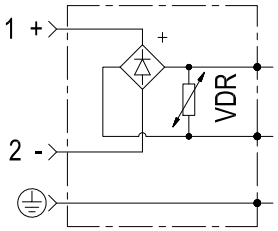
CIRCUIT WITH LED



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

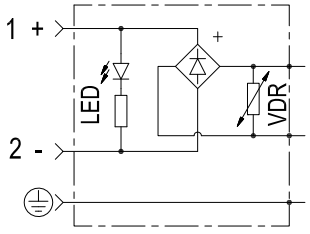
Note: for diode with capacity max 1 Amp,
suitable only for **S8-356** coils.



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.

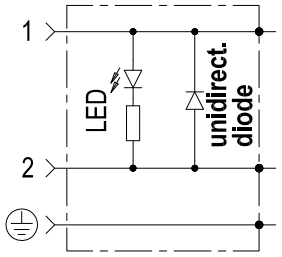


Voltage V AC	Voltage V DC	Diode Capacity I max	Colour	Valve side	Cable entry	Led colour	Type connector	Code	Material number
115	/	1 A	trasparent	A/B	Pg9 / Pg11	red	type 1	OD01691901OW00	R934004369
230	/	3 A	trasparent	A/B	Pg9 / Pg11	red	type 2	OD01691900OZ00	R934004367

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