Overview

Description

Magnet wire wound on a molded 30% glass filled bobbin and encapsulated with 30% glass filled polyester resin. Overmolded coil is framed in steel.

Ratings

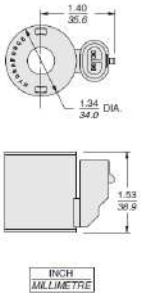
Properties

Magnet wire	U.S. class H 180 °C (356 °F) minimum rating
Mating connector	DT06-2S-P012 **- Note:** DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 **- Note:** METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

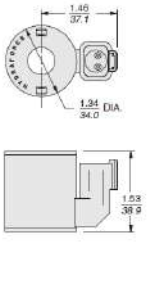
Electrical Parameters

Coil resistance	5.4 ohm ±8% **- Note:** At 20 °C (68 °F), 12 V coil 21.7 ohm ±5% **- Note:** At 20 °C (68 °F), 24 V coil
Initial current draw	2.2 A **- Note:** 12 V coil 1.1 A **- Note:** 24 V coil
Coil initial power consumption	26.4 W **- Note:** At maximum control current, 12/24 V coil

Dimensions



EY
IP69K Rated 08-Size Coil
Thermal Shock Dunk Test Rated Coil
Metri-Pack® 150 Connector



ER
IP69K Rated 08-Size Coil
Thermal Shock Dunk Test Rated Coil
Deutsch DT04-2P Connector

Coil Part Numbers

Model code	Part no.	Voltage	Connector	IP rating	Diode
12EY	4304812	12	Metri-Pack 150 2M	IP69K	
12ER	4304712	12	Deutsch DT04-2P	IP69K	
24ER	4304724	24	Deutsch DT04-2P	IP69K	

Overview

Description

Magnet wire winding overmolded 30% glass filled polyester, and enclosed in a three piece zinc plated metal shell.

Ratings

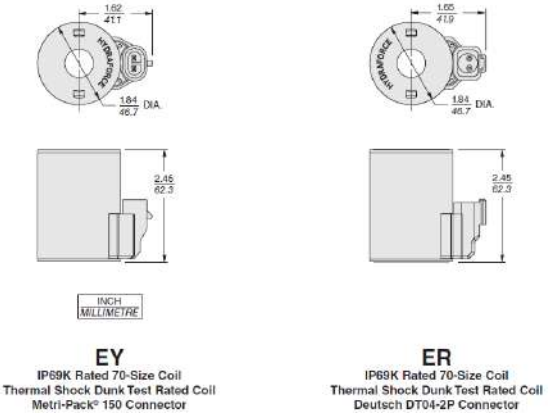
Properties

Magnet wire	U.S. class N 200 °C (392 °F) minimum rating
Mating connector	DT06-2S-P012 **- Note:** DEUTSCH DT04-2P DELPHI/PACKARD number 12052641 **- Note:** METRI-PACK 150-2M
Coil metal frame	Plated for 1,000 hours of salt spray per ASTM B117-09 before corrosion (red rust)

Electrical Parameters

Coil resistance	4.5 ohm ±3% **- Note:** At 20 °C (68 °F), 12 V coil 17.9 ohm ±5% **- Note:** At 20 °C (68 °F), 24 V coil
Maximum control current	1.5 A **- Note:** 12 V coil 0.75 A **- Note:** 24 V coil
Coil initial power consumption	10.13 W **- Note:** At maximum control current, 12 V coil 10.1 W **- Note:** At maximum control current, 24 V coil

Dimensions



EY
IP69K Rated 70-Size Coil
Thermal Shock Dunk Test Rated Coil
Metri-Pack® 150 Connector

ER
IP69K Rated 70-Size Coil
Thermal Shock Dunk Test Rated Coil
Deutsch DT04-2P Connector

Coil Part Numbers

Model code	Part no.	Voltage	Connector	IP rating	Diode
12EY	4303112	12	Metri-Pack 150 2M	IP69K	
12ER	4303212	12	Deutsch DT04-2P	IP69K	
24ER	4303224	24	Deutsch DT04-2P	IP69K	

Overview

Description

Magnet wire wound on a molded 30% glass filled bobbin framed in steel and encapsulated with 30% glass filled polyester resin. Coil impregnated with anerobic sealant.

Ratings

Properties

Magnet wire	U.S. class H 180 °C (356 °F) minimum rating
Mating connector	DT06-2S-P012 - **Note:** DEUTSCH DT04-2P DELPHI/PACKARD number 12010973 - **Note:** Weather-Pack 2 terminal male, lead wires 18 AWG

Electrical Parameters

Coil resistance	4.83 ohm ±3% - **Note:** At 20 °C (68 °F), 10 Vdc coil 7.2 ohm ±3% - **Note:** At 20 °C (68 °F), 12 Vdc coil 19.0 ohm ±5% - **Note:** At 20 °C (68 °F), 20 Vdc coil 28.8 ohm ±5% - **Note:** At 20 °C (68 °F), 24 Vdc coil 64.8 ohm ±5% - **Note:** At 20 °C (68 °F), 36 Vdc coil 568 ohm - **Note:** At 20 °C (68 °F), 115 Vdc coil 2304 ohm - **Note:** At 20 °C (68 °F), 230 Vdc coil
Coil initial current draw	2.07 A - **Note:** 10 Vdc coil 1.67 A - **Note:** 12 Vdc coil 1.05 A - **Note:** 20 Vdc coil 0.83 A - **Note:** 24 Vdc coil 0.56 A - **Note:** 36 Vdc coil 0.17 A - **Note:** 115 Vac coil 0.09 A - **Note:** 230 Vac coil
Coil initial power consumption	20 W

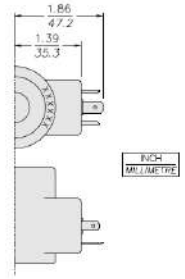
Bidirectional Zener Diode Parameters

Maximum clamping voltage	45.7 V - **Note:** 12 Vdc coil 64.8 V - **Note:** 24 Vdc coil
Maximum peak pulse current	13.2 A - **Note:** 12 Vdc coil 9.3 A - **Note:** 24 Vdc coil
Reverse standoff voltage	28.2 V - **Note:** 12 Vdc coil 40.2 V - **Note:** 24 Vdc coil
Maximum reverse leakage	5.0 µA - **Note:** 12, 24 Vdc coil
Breakdown voltage	31.4 to 34.7 V - **Note:** 12 Vdc coil 44.7 to 49.4 V - **Note:** 24 Vdc coil
Diode part number	6110163 - **Note:** 12 Vdc coil (ref) 4000063 - **Note:** 24 Vdc coil (ref)

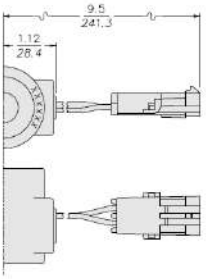
Unidirectional Diode Parameters

Average forward current	3.0 A - **Note:** Maximum, 12 Vdc coil 1 A - **Note:** Maximum, 24 Vdc coil
Maximum repetitive peak reverse voltage	50 V - **Note:** 12 Vdc coils 400 V - **Note:** 24 Vdc coils

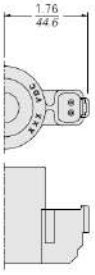
Dimensions



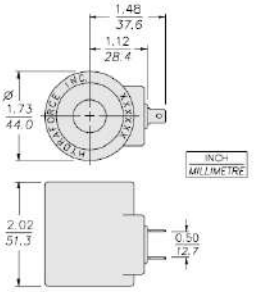
G
DIN 43650 Connector
Pins 1 and 2 are not polarity-sensitive. Ground pin is not used.



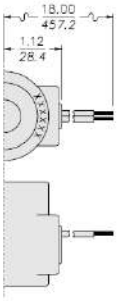
W
Dual 18 Gauge Leads with Weather Pack® Connector
For use with Packard part no. 12015792 female plug



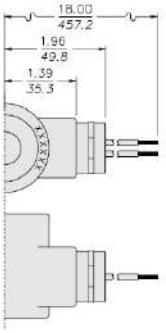
DR
Integral Deutsch Connector
DR Models without Diode
DR/D Models with Diode
DR/Z Models with Zener Diode



S
Dual Spades SAE J858a



L
Dual Leads 18 Gauge
Optional 36-inch leads available. Consult factory.



P
1/2" Conduit & 18 Gauge Leads

Coil Part Numbers

Model code	Part no.	Voltage	Connector	IP rating	Diode
24AG	6366024	24	DIN 43650		
115AG	6366115	115	DIN 43650		
230AG	6366230	230	DIN 43650		
24AP	6365024	24	1/2-14 NPT internal thread		
115AP	6365115	115	1/2-14 NPT internal thread		
230AP	6365230	230	1/2-14 NPT internal thread		
10DG	6356010	10	DIN 43650		
12DG	6356012	12	DIN 43650		
24DG	6356024	24	DIN 43650		
10DL	6352010	10	Dual leads/no connector		
12DL	6352012	12	Dual leads/no connector		
12DL	6357012	12	Dual leads/no connector		
24DL	6352024	24	Dual leads/no connector		
12DL/W	6359412	12	Dual leads/no connector		
24DL/W	6359424	24	Dual leads/no connector		
12DL/W/D	6359732	12	Dual leads/no connector		Ultra-fast diode
24DL/W/D	6359739	24	Dual leads/no connector		Ultra-fast diode
24DP	6355024	24	1/2-14 NPT internal thread		
12DR	4301612	12	Deutsch DT04-2P		
24DR	4301624	24	Deutsch DT04-2P		
10DR/D	4301891	10	Deutsch DT04-2P		Ultra-fast diode
12DR/D	4301892	12	Deutsch DT04-2P		Ultra-fast diode
20DR/D	4301893	20	Deutsch DT04-2P		Ultra-fast diode
24DR/D	4301894	24	Deutsch DT04-2P		Ultra-fast diode
12DR/Z	4301862	12	Deutsch DT04-2P		Bidirectional zener diode
10DS	6351010	10	Dual spade		
12DS	6351012	12	Dual spade		
20DS	6351020	20	Dual spade		
24DS	6351024	24	Dual spade		
36DS	6351036	36	Dual spade		