- Industry standard footprint, now with terminal
- Blades with no holes for better mounting in sockets
- Integral LED (Red for AC, Green for DC coils)
- Locking test lever with press feature (Blue for DC, Red for AC coils)
- Welded (not soldered) coil connections for greater reliability

CE cRUus E325835 RoHS Compliant ✓

Contacts

Contact arrangement	4PDT (4C/O)
Contact material	AgNi (90/10)
Max. switching voltage	277VAC, 30VDC
Min. breaking capacity	0.3W
Rated load (resistive - cos φ=1) AC1	4PDT: 5A/240VAC
DC1	4PDT: 5A/28VDC
Initial resistance	≤ 100mΩ

Coil

Nominal voltage	DC 6...110V, AC 6...240V
Must release voltage	DC ≥0.1Un, AC ≥0.3Un
Operating range of supply voltage	See tables 1 & 2
Rated power consumption	DC 0.9W, AC 1.2VA

Insulation

Insulation resistance	≥100 MΩ at 500VDC, 50% RH
Dielectric strength coil to contact	$1500V_{rms,}$ 1min (50Hz), 1mA
contact to contact	$1000V_{rms,}$ 1min (50Hz), 1mA
between adjacent contacts	$1200V_{rms,}$ 1min (50Hz), 1mA

General Data

Operating time typ.	≤15ms
Release time typ.	≤10ms
Electrical life ops.	1×10^5
Mechanical life ops.	1×10^7

Environmental

Environmental protection	IP40
Ambient temperature operating	-40 to +70°C
storage	-55 to +70°C
Shock resistance	10G, 11ms
Vibration resistance	DA 1.0mm 10-55Hz
Dimensions L x W x H	27 x 21 x 36.5mm
Weight approx.	≤35g

Ordering Code

D X 4 - 2 0 1 4 - 2 3 - 1 0 1 2 - W T L

__Series__

__Contact material__
20: AgNi(90/10)

__Contact arrangement__
14: 4PDT (4/C/O)

__Environmental protection IP40__
2: In cover

__Mounting & terminations__
3: For plug-in sockets only

__Coil code:__
See tables
1 & 2

__Options__
Blank: Without LED & test lever (to special order only)
WTL: LED indication of coil energization & test lever (standard)

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DC Coil Data (Green LED)   **Table 1**

Coil code	Nominal voltage (VDC)	Coil resistance Ω ±10%	Power consumption (mW)	Must operate voltage max. (VDC)	Must release voltage min. (VDC)	Max. allowable voltage (VDC)
1006	6	40	900	4.5	0.6	6.6
1012	12	160	900	9.0	1.2	13.2
1024	24	640	900	18.0	2.4	26.4
1048	48	2600	900	36.0	4.8	52.8
1100	110	13450	900	82.5	11.0	121.0

AC Coil Data at 50/60Hz (Red LED)   **Table 2**

Coil code	Nominal voltage (VAC)	Rated coil current (mA) +15/-20%	Power consumption approx. (VA)	Must operate voltage max. (VAC)	Must release voltage min. (VAC)	Max. allowable voltage (VAC)
3006	6	10.5	1.2	4.8	1.8	6.6
3012	12	42	1.2	9.6	3.6	13.2
3024	24	168	1.2	19.2	7.2	26.4
3048	48	672	1.2	38.4	14.4	52.8
3110	110	3530	1.2	88.0	33.0	121.0
3120	120	4200	1.2	96.0	36.0	132.0
3230	230	15430	1.2	176.0	66.0	242.0

Wiring Diagram   **Fig. 1**

Bottom View
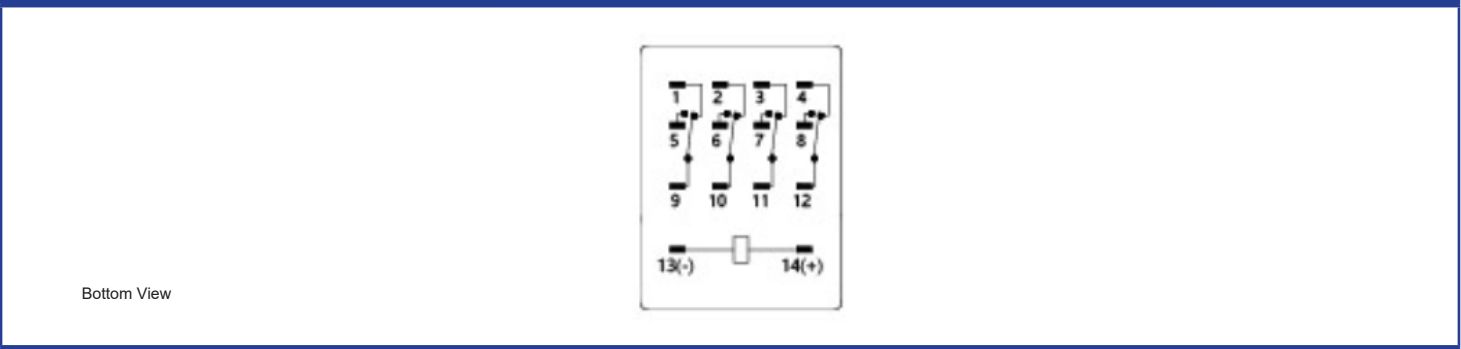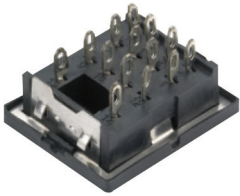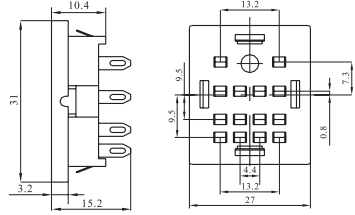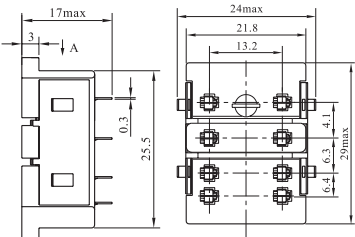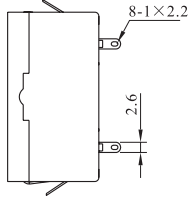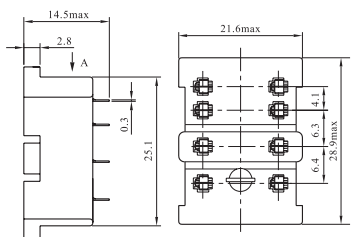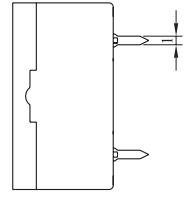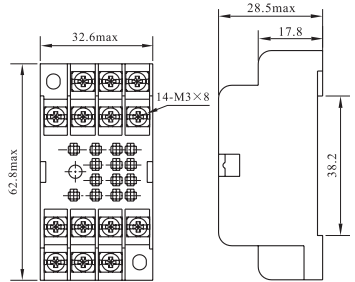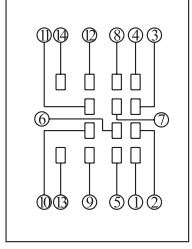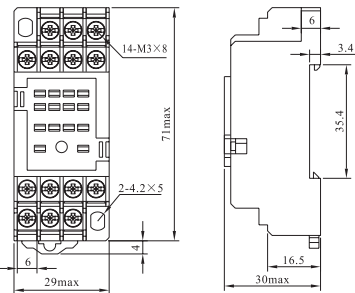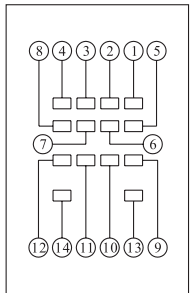
Overall Dimensions mm   **Fig. 2**

Specifications are subject to change without notice. E&OE.

Sockets for the DX4 relay	Parameters	Outline Drawing	Wiring Diagram
D18F-4Z-A $_c$**RU**$_{US}$	Rated voltage: 250VAC Rated current: 7A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-001RC Module: No		
D18F-4Z-A1 $_c$**RU**$_{US}$	Rated voltage: 250VAC Rated current: 7A Insulation voltage: ≥ 3KV Socket material: PBT (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-001RC Module: No		
D18F-4Z-A2 $_c$**RU**$_{US}$	Rated voltage: 250VAC Rated current: 5A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-001RC Module: No		
D18F-4Z-B $_c$**RU**$_{US}$	Rated voltage: 250VAC Rated current: 5A Insulation voltage: ≥ 3KV Socket material: PA46-S250F6 (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-001RC Module: No		
D18F-4Z-C1-N $_c$**RU**$_{US}$	Rated voltage: 250VAC Rated current: 5A Insulation voltage: ≥ 3KV Socket material: PA46-S250F6 (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-006RC Module: No		

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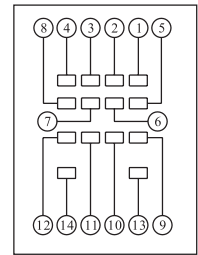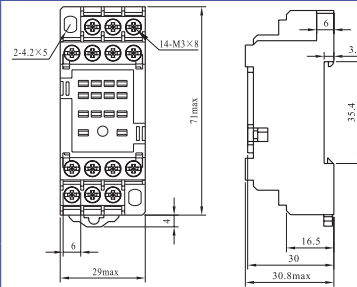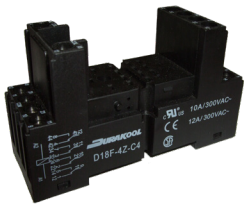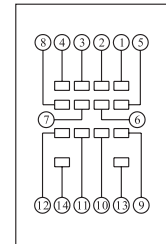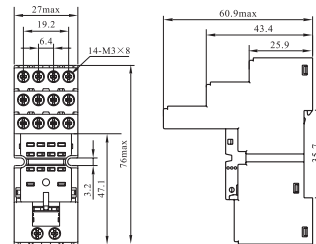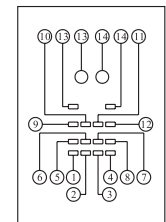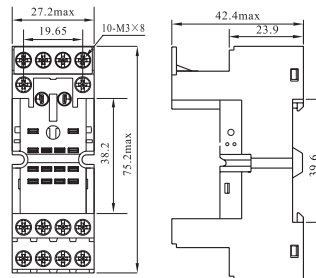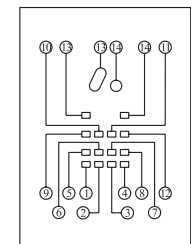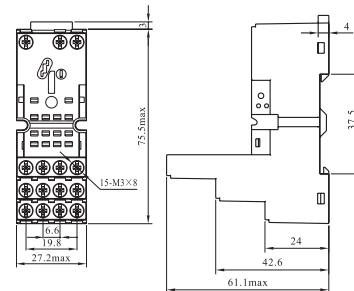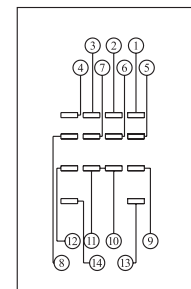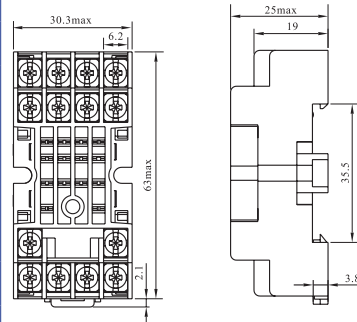| Sockets for the DX4 relay	Parameters	Outline Drawing	Wiring Diagram
D18F-4Z-C2-N	Rated voltage: 250VAC Rated current: 7A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-006RC Module: No		
D18F-4Z-C3	Rated voltage: 300VAC Rated current: 10A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-36MS-B Plastic ejector clip (page 8): JH-36PS-A Module: No		
D18F-4Z-C4	Rated voltage: 300VAC Rated current: 10A Insulation voltage: ≥ 3KV Socket material: PA46-S250F6 (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-36MS-B Plastic ejector clip (page 8): JH-36PS-A Module (pages 5-7): All DM***-BK		
D18F-4Z-C5	Rated voltage: 300VAC Rated current: 10A Insulation voltage: ≥ 3KV Socket material: PA46-S250F6 (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-36MS-B Plastic ejector clip (page 8): JH-36PS-A Module (pages 5-7): All DM***-BK		
D18F-4Z-C6	Rated voltage: 250VAC Rated current: 5A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-505RC Module: No		

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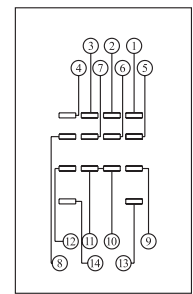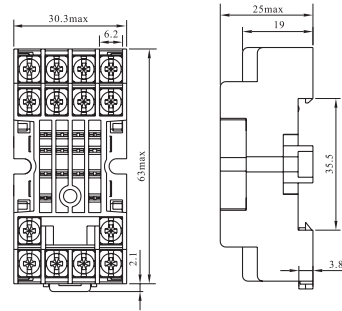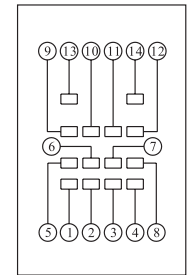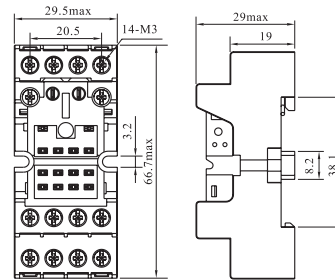| Sockets for the DX4 relay	Parameters	Outline Drawing	Wiring Diagram
D18F-4Z-C7	Rated voltage: 250VAC Rated current: 5A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip JH-36MS-B Module: No		
D18F-4Z-C8	Rated voltage: 300VAC Rated current: 10A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-36MS-B Plastic ejector clip (page 8): JH-36PS-A Module (pages 5-7): All DM***-BK		
D18F-4Z-C9	Rated voltage: 300VAC Rated current: 10A Insulation voltage: ≥ 3KV Socket material: PA66+GF (V1/V0) Contacts spring material: QSn6.5-0.1 Metal retainer clip (page 8): JH-36MS-B Plastic ejector clip (page 8): JH-36PS-A Module (pages 5-7): All DM***-BK		

Modules for Durakool Sockets - Round Pin Plug-in

DM61G-BK
6~24VAC/DC
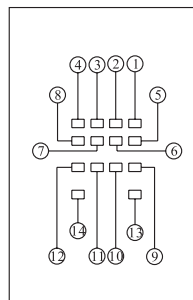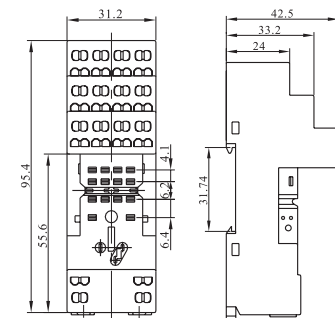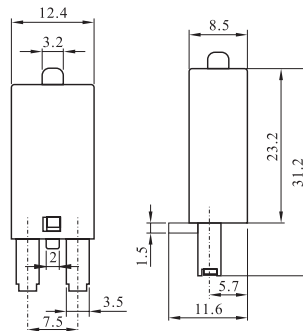
Notes:
Durakool modules for sockets have a round LED and square shoulders.

Part No	Socket Types	Circuit	Description
DM21P-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9	- A1 / + A2	Diode A1-
DM21N-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9	+ A1 / - A2	Diode A1+
DM31R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9	- A1 / + A2	Red LED with diode, 6 - 24VDC, A1-
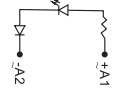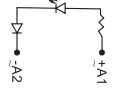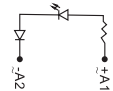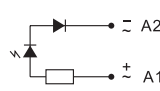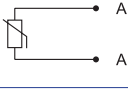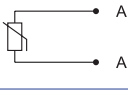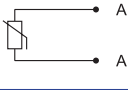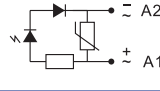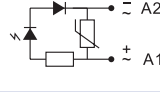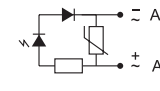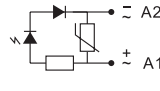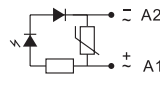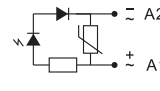
All accessories are upon request only.

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DURAKOOL®

Modules for Durakool Sockets - Round Pin Plug-in

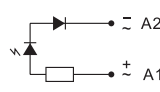| Part No	Socket Types	Circuit	Description
DM31G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with diode, 6 - 24VDC, A1-
DM32R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with diode, 24 - 60VDC, A1-
DM32G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with diode, 24 - 60VDC, A1-
DM33R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with diode, 110 - 230VDC, A1-
DM33G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with diode, 110 - 230VDC, A1-
DM41R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with diode, 6 - 24VDC, A1+
DM41G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with diode, 6 - 24VDC, A1+
DM42R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with diode, 24 - 60VDC, A1+
DM42G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with diode, 24 - 60VDC, A1+
DM43R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with diode, 110 - 230VDC, A1+
DM43G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with diode, 110 - 230VDC, A1+
DM51-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		RC Network, 6 to 24V
DM52-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		RC Network, 24V to 60V
DM53-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		RC Network, 110 to 230V
DM61R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED, 6 - 24VAC/DC

All accessories are upon request only.

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Modules for Durakool Sockets - Round Pin Plug-in

Part No	Socket Types	Circuit	Description
DM61G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED, 6 - 24VAC/DC
DM62R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED, 24 - 60VAC/DC
DM62G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED, 24 - 60VAC/DC
DM63R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED, 110 - 230VAC/DC
DM63G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED, 110 - 230VAC/DC
DM71-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Varistor 24VAC
DM72-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Varistor 115VAC
DM73-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Varistor 230VAC
DM91R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with varistor, 6 - 24VAC/DC
DM91G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with varistor, 6 - 24VAC/DC
DM92R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with varistor, 24 - 60VAC/DC
DM92G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with varistor, 24 - 60VAC/DC
DM93R-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Red LED with varistor, 110 - 230VAC/DC
DM93G-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Green LED with varistor, 110 - 230VAC/DC
DM103-BK	D14F Series -C2, C3, C5, C9; D18F Series -C4, C5, C8, C9		Resistor 110 - 230VAC

All accessories are upon request only.

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Retaining Springs and Ejector Clips for Durakool Sockets

Matching Socket(s):
D18F-4Z-A/A1/A2/B

JH-001RC

Matching Socket(s):
D18F-4Z-C1-N/C2-N

JH-006RC

Matching Socket(s):
D18F-4Z-C3/C4/C5/C7/C8/C9

JH-36MS-B

Matching Socket(s):
D18F-4Z-C3/C4/C5/C8/C9

JH-36PS-A

Matching Socket(s):
D18F-4Z-C6

JH-505RC

All accessories are upon request only.

DX4 011022FW

Specifications are subject to change without notice. E&OE.