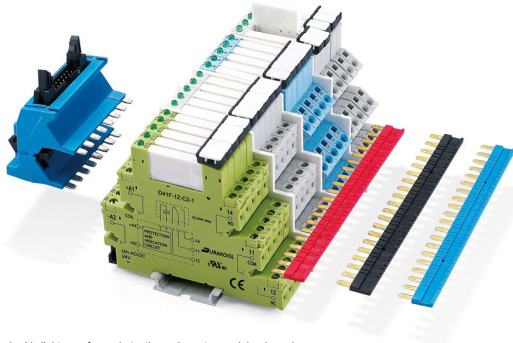


D41F series

interface relays

DURAKOOL



* Standard is light gray for socket, other colours to special order only.

- miniature slim DIN rail power relay
- up to 6A /250V AC rating
- LED indication
- Screw or spring clamp terminals
- Optional accessories
- RoHS Compliant



Contacts

| | | |
|----------------------------------|------------------------|-----------------|
| Contact number & arrangement | SPDT (1 C/O) | |
| Contact material | AgSnO ₂ | |
| Max. switching voltage | AC/DC | 440VAC / 125VDC |
| Min. switching current / voltage | 5mA / 5VDC | |
| Rated load | Resistive | 6A 250VAC/30VDC |
| Max. switching power | 1500VA / 180W | |
| Max. inrush current | 15A for 2.5ms | |
| Initial resistance | 100mΩ, max. at 1A/6VDC | |

Coil (Input)

| | | |
|-----------------------------------|------------------|--|
| Rated voltage | AC or DC | 12 ~ 24V, 48 ~ 60V, 110 ~ 125V, 220 ~ 240V AC/DC |
| | DC only | 6 ~ 24V DC |
| Operating range of supply voltage | See coil table 1 | |

Insulation

| | | |
|-----------------------|---------------------------|----------------|
| Insulation resistance | ≤ 1000MΩ at 500VDC, 50%RH | |
| Dielectric strength | | |
| | coil to contact | 4000Vrms, 1min |
| | contact to contact | 1000Vrms, 1min |

General Data

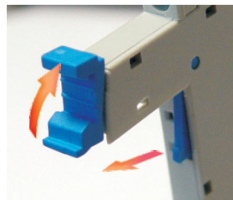
| | | |
|--------------------------|---|---|
| Operating time (typical) | mS | ≤ 7ms |
| Release time (typical) | mS | ≤ 15ms |
| Electrical Life | ops | ≥ 3.0 x 10 ⁴ (NO) / ≥ 1.0 x 10 ⁴ (NC) at full rated load, @ 85°C |
| Mechanical life | ops | ≥ 1 x 10 ⁷ |
| Dimensions | L x W x H | 88.3 x 6.3 x 70.9 (refer to dimension drawings, Fig 1, for details) |
| Weight | approx 28g (socket including relay) | |
| Ambient temperature | storage | -40 to 85°C |
| | operating | 6 ~ 12VDC, 12 ~ 24V AC/DC, 48 ~ 60V AC/DC: -40 to 70°C 110 ~ 125V, 220 ~ 230V AC/DC: -40 to 55°C |
| Humidity | 5% to 85% RH | |
| Shock resistance | 49ms ² (functional) / 980ms ² (destructive) | |
| Vibration resistance | 10...55Hz, 1mm DA | |

D41F series interface relays

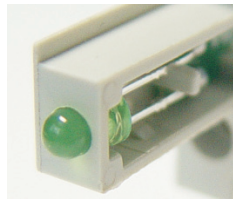


| Coil data | | | | | Table 1 |
|-------------------|-------------------------|--------------------|----------------|--------------------------------|----------------------|
| Coil Voltage Code | Nominal Control Voltage | Relay Coil Voltage | Input Polarity | Screw Torque (D41F-1Z-C2 only) | Stripped wire length |
| 1 | 12 ~ 24VAC/DC | 12VDC | None | 0.5Nm | 7mm |
| 2 | 48 ~ 60VAC/DC | 48VDC | | | |
| 3 | 110 ~ 125VAC/DC | 60VDC | | | |
| 4 | 220 ~ 230VAC/DC | 60VDC | | | |
| 5 | 6 ~ 24VDC | 5VDC | A1 + / A2 - | | |

Operating relays below or above the nominal voltage may prove detrimental to performance.

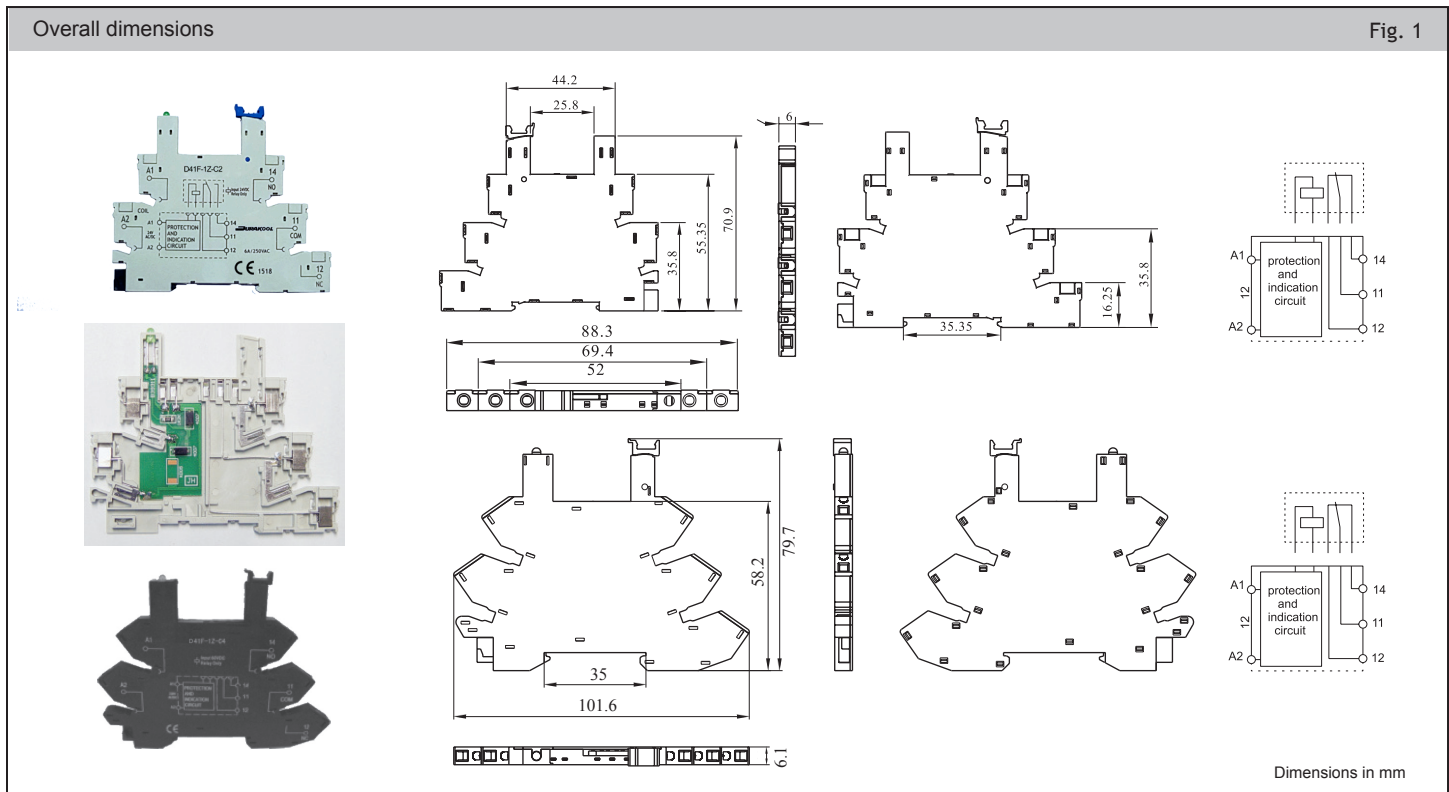


Movable ejector:
Easy replacement of relay



Green LED Diode indicates
operate status of relay

| Ordering codes | | | | Table 2 |
|--|---------|--------------|-----------|-------------|
| Relay & Socket Code | Contact | Socket style | Coil code | |
| D 4 1 F | 1 Z | | | |
| Contact Style 1Z - SPDT (1 Form Z) | | | | See Table 1 |
| Socket style C2 - Screw terminals C4 - Spring clamp terminals | | | | |




D41F series

interface relays - accessories



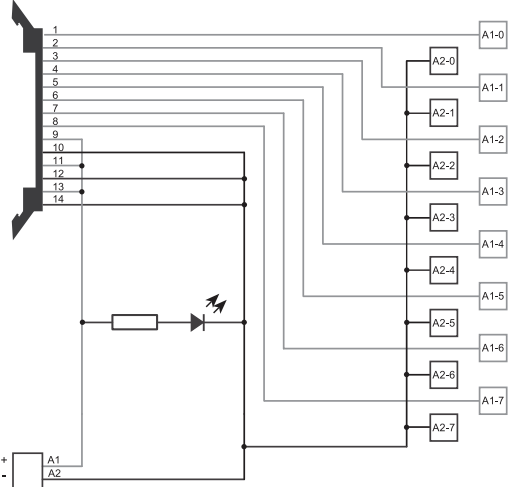
D41F-AR Adaptor Fig.2



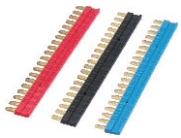
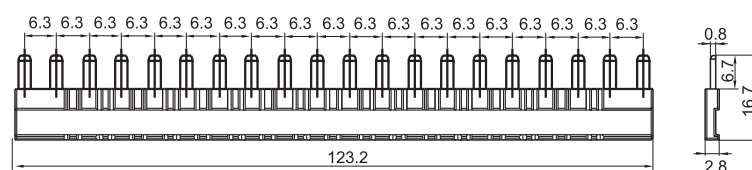
| Technical data | |
|-----------------------------------|---------------------------|
| Rated current (per signal path) | 1A |
| Minimum required supply power | 3W |
| Nominal voltage (U _n) | 24VDC |
| Operating range | (0.8~1.1)U _n |
| Control logic | Positive switching (to A) |
| Power supply status indication | Green LED |
| Ambient temperature range | -40°C ~ 70°C |

| Terminals for 24V control logic | |
|---------------------------------|------------------------------------|
| Type of connector | 14 pole, according to IEC 60603-13 |

| Terminals for 24V Power supply | | |
|--------------------------------|---------------|--------------------------------|
| Wire strip length | 9.5mm | |
| Screw torque | 0.5Nm | |
| Max. wire size | solid wire | 1 x 4/2 x 1.5mm ² |
| | | 1 x 12/2 x 16AWG |
| | stranded wire | 1 x 2.5/2 x 1.5mm ² |
| | | 1 x 14/2 x 16AWG |


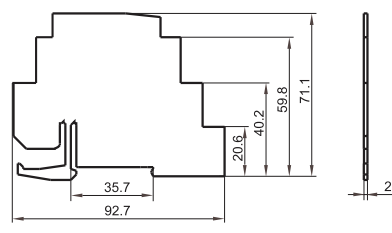


D41F-J-Blue / Red / Black Jumper Fig. 3

Ordering Code: D41F-J - Red or D41F-J- Blue or D41F-J-Black

D41F-S Separator Fig. 4

D41F-M White Marker Tab **D41F-M1 White Marker Tab (bulk for engraving)** Fig. 5

