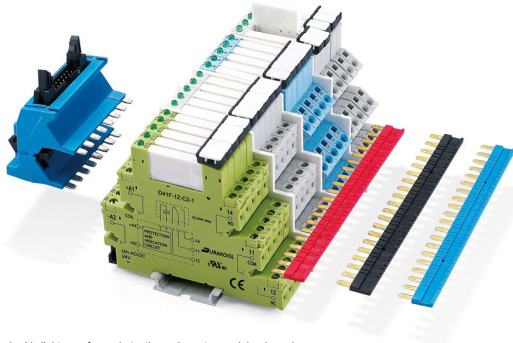


D41F series

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

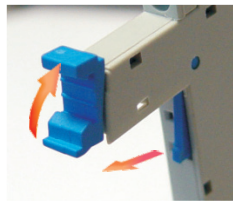
Operating time (typical)	mS	≤ 7ms
Release time (typical)	mS	≤ 15ms
Electrical Life	ops	≥ 3.0 x 10 ⁴ (NO) / ≥ 1.0 x 10 ⁴ (NC) at full rated load, @ 85°C
Mechanical life	ops	≥ 1 x 10 ⁷
Dimensions	L x W x H	88.3 x 6.3 x 70.9 (refer to dimension drawings, Fig 1, for details)
Weight	approx 28g (socket including 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

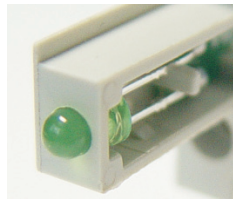


Coil data					Table 1
Coil Voltage Code	Nominal Control Voltage	Relay Coil Voltage	Input Polarity	Screw Torque (D41F-1Z-C2 only)	Stripped wire length
1	12 ~ 24VAC/DC	12VDC	None	0.5Nm	7mm
2	48 ~ 60VAC/DC	48VDC			
3	110 ~ 125VAC/DC	60VDC			
4	220 ~ 230VAC/DC	60VDC			
5	6 ~ 24VDC	5VDC	A1 + / A2 -		

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

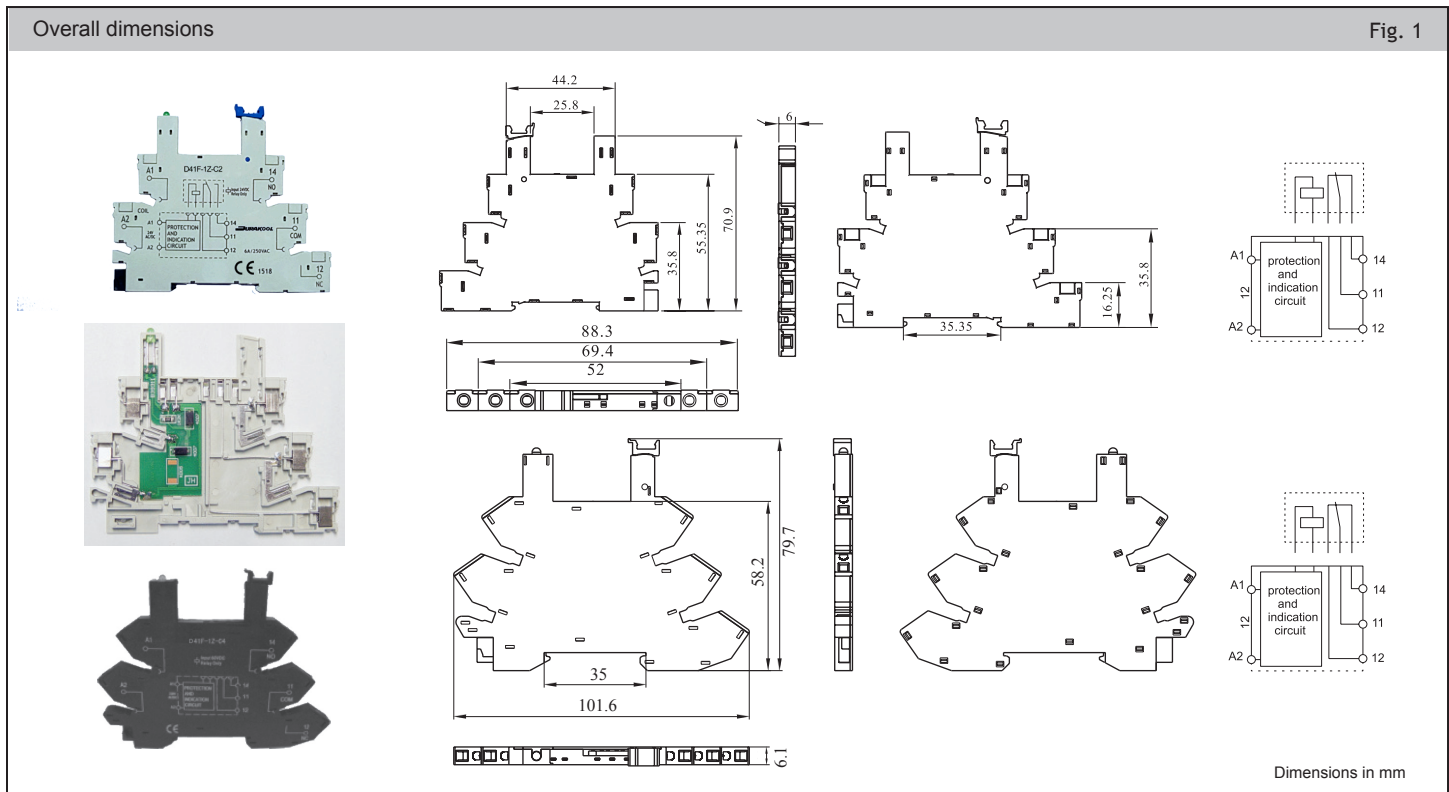


Movable ejector:
Easy replacement of relay



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



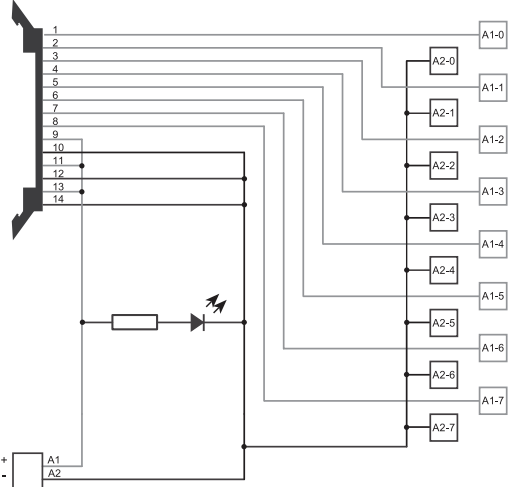
D41F-AR Adaptor Fig.2



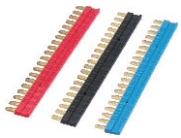
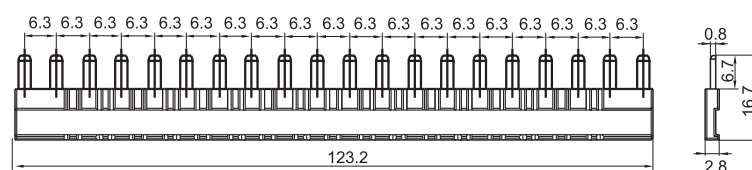
Technical data	
Rated current (per signal path)	1A
Minimum required supply power	3W
Nominal voltage (U _n)	24VDC
Operating range	(0.8~1.1)U _n
Control logic	Positive switching (to A)
Power supply status indication	Green LED
Ambient temperature range	-40°C ~ 70°C

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


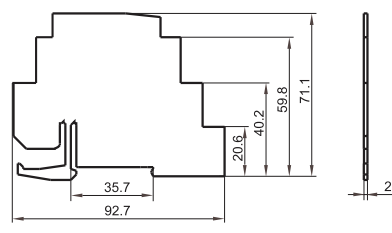


D41F-J-Blue / Red / Black Jumper Fig. 3

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

