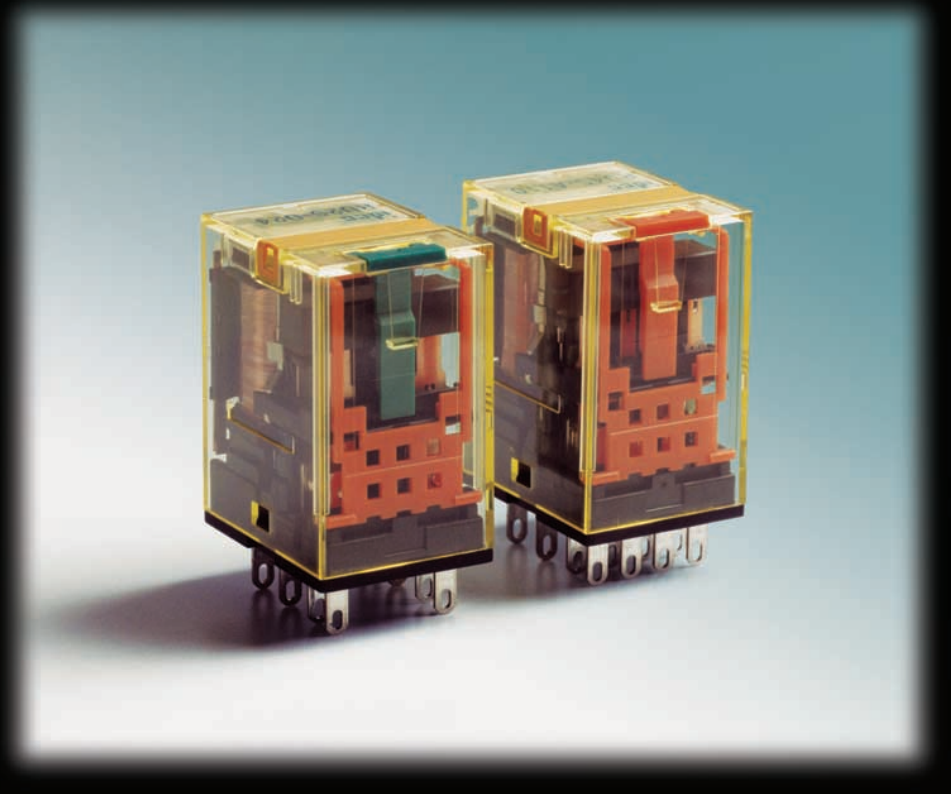


# RU Relays

There's no comparison



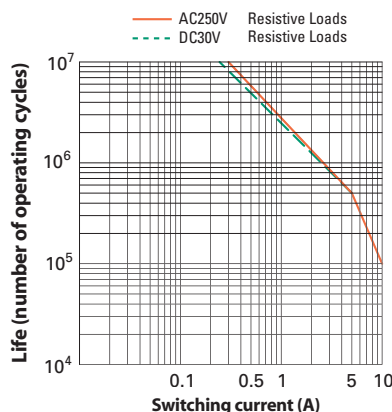
**idec**

MODEL NO.		RU2	RU4
CONTACT CONFIGURATION MATERIAL RATED LOAD (resistive)		DPDT AgSnOIn (silver tin oxide indium) 10A/250V AC, 10A/30V DC	4PDT AuAg/Ag (gold-silver alloy on silver) 6A/250V AC, 6A/30V DC
COIL VOLTAGE  POWER CONSUMPTION (approx.) MAXIMUM VOLTAGE (of the rated voltage) PICKUP VOLTAGE (of the rated voltage) DROPOUT VOLTAGE (of the rated voltage)		24, 110-120, 220-240V AC 12, 24, 110V DC 1.1-1.4VA (AC); 0.9-1.0W (DC) AC: 110%; DC: 110% AC: 80% maximum; DC: 80% maximum AC: 30% minimum; DC: 10% minimum	24, 110-120, 220-240V AC 12, 24, 110V DC 1.1-1.4VA (AC); 0.9-1.0W (DC) AC: 110%; DC: 110% AC: 80% maximum; DC: 80% maximum AC: 30% minimum; DC: 10% minimum
CONTACT RESISTANCE (initial value)		50 mΩ maximum	50 mΩ maximum
MINIMUM APPLICABLE LOAD		24VDC, 5mA (reference value)	5VDC, 5mA (reference value)
OPERATE TIME (at rated voltage)		20 msec maximum	20 msec maximum
RELEASE TIME (at rated voltage)		20 msec maximum	20 msec maximum
LIFE MECHANICAL  ELECTRICAL		AC: 20,000,000 operations minimum DC: 30,000,000 operations minimum  See electrical life curve	AC: 20,000,000 operations minimum DC: 30,000,000 operations minimum  See electrical life curve
DIELECTRIC STRENGTH	Between contact and coil Between poles Between contacts of the same pole	2,500VAC, 1 minute 2,500VAC, 1 minute 1,000VAC, 1 minute	2,500VAC, 1 minute 2,000VAC, 1 minute 1,000VAC, 1 minute
SHOCK RESISTANCE		Operating extremes: 150 m/s <sup>2</sup> (15G) Damage limits: 1,000 m/s <sup>2</sup> (100G)	Operating extremes: 150 m/s <sup>2</sup> (15G) Damage limits: 1,000 m/s <sup>2</sup> (100G)
VIBRATION RESISTANCE		Operating extremes: 10 to 55Hz, Amplitude 1.0 mm p-p Damage limits: 10 to 55Hz, Amplitude 1.0 mm p-p	Operating extremes: 10 to 55Hz, Amplitude 1.0 mm p-p Damage limits: 10 to 55Hz, Amplitude 1.0 mm p-p
DEGREE OF PROTECTION		IP40	IP40
OPERATING TEMPERATURE		-55 to +70°C (no freezing)	-55 to +70°C (no freezing)
APPLICABLE SOCKET (DIN RAIL MOUNT)		SM2S-05	SY4S-05
DIMENSIONS (H x W x D mm)		35.0 x 21.0 x 27.5	35.0 x 21.0 x 27.5
WEIGHT (approx.)		35g	35g
APPROVALS		UL, c-UL, TÜV, CE	UL, c-UL, TÜV, CE
INTERNAL CONNECTION (bottom view)			

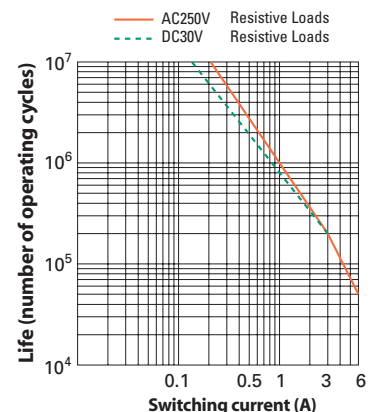


Before operating the manual latching lever, make sure to turn off the power.  
Do not use the latching lever as a manual disconnect switch.  
Make sure that the manual latching lever is never left at a pulled out position.  
Failure to observe this may affect the operation and contact life.

RU2 Electrical Life Curve



RU4 Electrical Life Curve

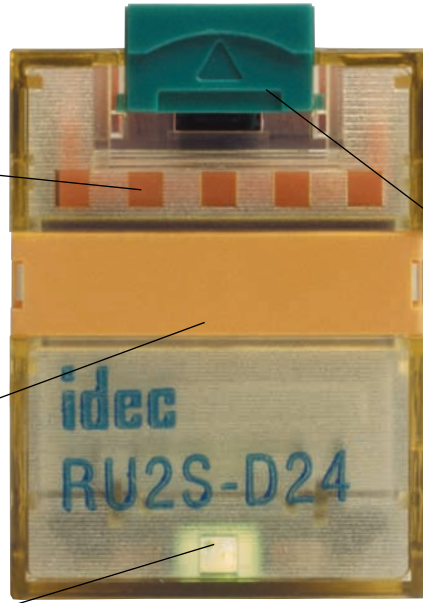


# All Standard Features

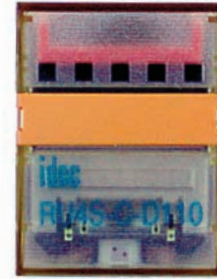
**Mechanical flag indicator** with five easy-to-see windows for greatest visibility

**Snap-on marking plate** for relay identification — easy to write on or replace

Super bright **non-polarized green LED** for visual verification of voltage applied



Color coded **manual latching levers** for circuit verification — green for DC coil, orange for AC coil



Pictured without manual latching lever



No internal wires  
No solder points  
No lead

New and improved robotic manufacturing process for precise and reliable construction

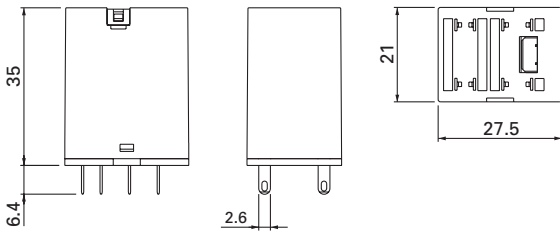
## Bottom view



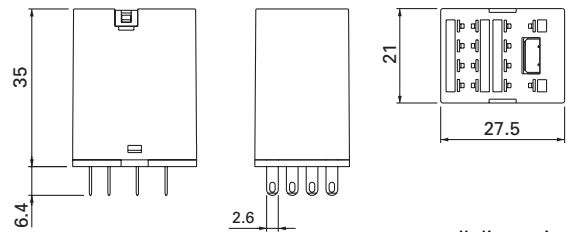
4 pole (RU4)

2 pole (RU2)

## RU2 Dimensions



## RU4 Dimensions

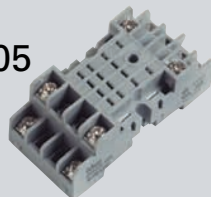


all dimensions in mm

## Applicable Sockets

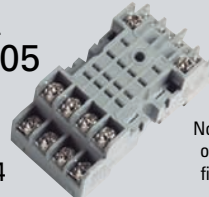
Part No.  
**SM2S-05**

for RU2 relay

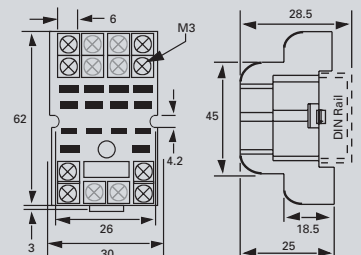


Part No.  
**SY4S-05**

for RU4 relay



Note: Add "C" at end of part number for fingersafe version (SM2S-05C) (SY4S-05C)



# There's no comparison!

The RU Relay has all the features you need with all the quality you expect from IDEC. See how other relays measure up.



Non-polarized LED  
Solder-free construction  
No internal wires  
Mechanical flag indicator  
Manual latching lever  
Snap-on marking plate

IDEC RU	Standard	Standard	Standard	Standard	Standard	Standard
AB 700-HC	Optional	No	No	No	No	No
Aromat HC	Optional	No	No	No	No	No
Finder 55	Optional	No	No	Yes	Yes	No
Omron MY	Optional	No	No	No	No	No
P&B/TYCO KHAU	Optional	No	No	No	No	No
P&B/TYCO PT	Optional	Yes	Yes	Yes	Yes	Yes
Releco/Turck C9	Optional	No	No	Yes	Yes	Yes
Square D 8501-RS	Optional	No	No	No	No	No

## ORDERING INFORMATION

<b>RU      S -</b>		
Part No.	Options	Coil Voltage Code
2 = DPDT	(Blank) = Standard	D12 = 12V DC
4 = 4PDT	(Latching lever & Indicator light	D24 = 24V DC
	C- = No Latching Lever	D110 = 110V DC
	D- = Standard + Diode (24V DC only)	A24 = 24V AC
		A110 = 110-120V AC
		A220 = 220-240V AC