

## KISSLING HIGH PERFORMANCE RELAYS

### Series 26 / 50A - from TE Connectivity (TE)

The KISSLING 26 series dual coil relays are developed using our competence and expertise gathered over decades of manufacturing to meet demanding operating requirements.

This coil system relay features extremely high shock and vibration resistance predominantly from careful design and an optimized magnetic circuit. The sealing technology used in these relays meet both the IP67 and IP6K9K (Steam pressure cleaning) protection standard. This relay series is well suited for various applications in severe commercial, military and aviation applications.

Other important advantages are low heat generation in the contact area based on low contact voltage drop, a compact design, low holding current, silver alloy contact material and the use of mechanical and high thermal stability insulating compounds. Both the terminals and housing is corrosion resistant for high climatic conditions and withstands a variety of different oils and fluids.

These relays are available with a wide variety of configuration options including contact configurations (NO, NC, NO/NC), coil voltages (12V, 24/28V) and various bracket styles to meet your installation conditions. Also available are optional suppression devices to eliminate electromagnetic interference at the coil and optional auxiliary contacts.

#### Features

- Sealed housing conforms to IP67 / IP6K9K
- Monostable high performance relay
- Mechanical life tested for 1 million mechanical cycles
- Up to 30G shock & 10G vibration resistant
- Military grade performance
- Wide variety of configuration options for individual needs
- Meets the requirements of MIL-R-6106

#### Applications

- Truck
- Bus
- Ground support vehicles
- Construction and agricultural vehicles
- Power Distribution
- Aviation industry
- Military

## Specification

### Technical Data

Temperature range	-55°C to +85°C
Max. Altitude rating	50.000 ft
Protection	IP6K9K / IP67
Shock	10G - 6msec / 500G - 0,5msec
Vibration	Types 26.70... & 26.73 = 1,5G (10-400Hz) / 1G (400-2000Hz) Types 26.71... & 26.72 = 10G (10-500Hz)
Acceleration	15G
Thread sizes / Torque	M3 = 3.2 - 3.5Nm   M5 = 0.5 - 0.6Nm
Wire section	min 6mm <sup>2</sup> / AWG 9
Mounting option	optional

### Electrical Characteristics

Min. Insulation Resistance	100MΩ
After Ilve or environmental	50MΩ
Dielectric withstanding voltage	1050VAC / 1min at 50Hz
Max. Contact drop, initial	150mV
Contact drop after life test	175mV
Continuous current	50A
Overload	10A - 1sec / 100A - 20sec
Rupture current	500A
Types 26.70.08/09 Overload	400A - 0,5sec / 200A - 1sec / 100A - 20sec

### Rated contact load (12 & 24 / 28VDC)

Resistive load	100.000 cycles - 50A
Mecahnical Life (iaw MIL-R-6106)	200.000 cycles - 12A
Endurance	1.000.000 cycles - 12A
Types 26.70.08/09 Overload	50.000 cycles 400A on / 50A off

### Coil Data

	Types 26.70 / 71 / 73		Types 26.72	
	12VDC	24 / 28 VDC	12VDC	24 / 28 VDC
Voltage range	10-16VDC	18-32VDC	10-16VDC	18-32VDC
Nominal voltage	12VDC	24/28VDC	12VDC	24/28VDC
Pick up voltage max.	10VDC	18VDC	10VDC	18VDC
Drop out voltage	≤ 3VDC	≤ 6VDC	≤ 3VDC	≤ 6VDC
Coil resistance	26Ω ± 10%	110Ω ± 10%	21Ω ± 10%	88Ω ± 10%
Coil current max.	0,6A	0,25 / 0,30A	0,7A	0,3 / 0,4A

Operating times	NO Contact   Changeover
Operate	max. 30msec
Bounce	max. 8msec
Release with suppression	max. 120msec   max. 80msec
Release without suppression	max. 15msec

Operating times	NC Contact   Changeover
Break time	max. 25msec
Bounce	max. 8msec
Make time with suppression	max. 100msec   max. 80msec
Make time without suppression	max. 25msec   max. 20msec

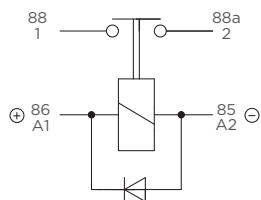
## Available Types

	Type Ordering key	Contact		Side mounting	4-hole side mounting	90° Version	Long form bottom mount.	Short form bottom mount.	Stud mount.	Suppression	Weight kg / pound
		NO	NC								
12V	26.70.24	x		x						x	0.33 / 0.73
	26.70.25*	x		x							0.33 / 0.73
	26.71.21	x						x		x	0.34 / 0.75
	26.71.22	x						x			0.34 / 0.75
	26.71.24	x			x					x	0.34 / 0.75
	26.71.25	x			x						0.34 / 0.75
	26.72.21	x	x		x					x	0.40 / 0.88
	26.72.22	x	x		x						0.40 / 0.88
	26.72.23	x	x		x	x				x	0.40 / 0.88
	26.72.24	x	x		x	x					0.40 / 0.88
24V / 28V	26.70.01	x					x			x	0.35 / 0.77
	26.70.02	x					x				0.35 / 0.77
	26.70.04	x		x						x	0.33 / 0.73
	26.70.05*	x		x							0.33 / 0.73
	26.70.06	x							x	x	0.33 / 0.73
	26.70.07	x							x		0.33 / 0.73
	26.70.08	x							x	x	0.33 / 0.73
	26.70.09	x							x		0.33 / 0.73
	26.71.01	x						x		x	0.34 / 0.75
	26.71.02	x						x			0.34 / 0.75
	26.71.04	x			x					x	0.34 / 0.75
	26.71.05	x			x						0.34 / 0.75
	26.72.01	x	x		x					x	0.40 / 0.88
	26.72.02	x	x		x						0.40 / 0.88
	26.72.03	x	x		x	x				x	0.40 / 0.88
	26.72.04	x	x		x	x					0.40 / 0.88
	26.73.04		x	x						x	0.33 / 0.73
	26.73.05*		x	x							0.33 / 0.73

Other types and customer specified types upon request / also available with current sensing / \* Standard version

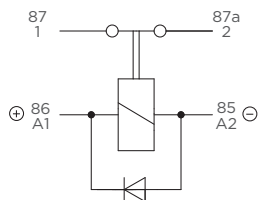
## Circuits

### NO-Contact



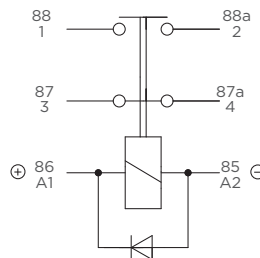
Suppression diode

### NC-Contact



Suppression diode

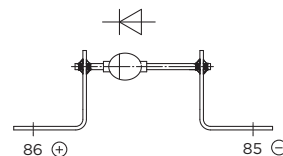
### NO/NC-Contact



Suppression diode

### Suppression diode

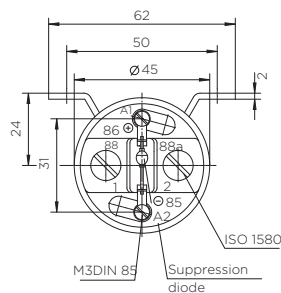
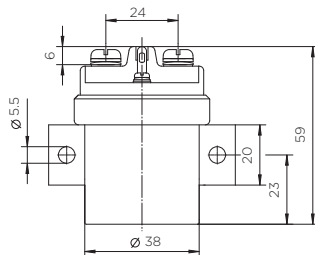
26.70.50



## Technical drawings

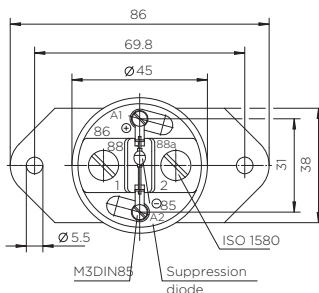
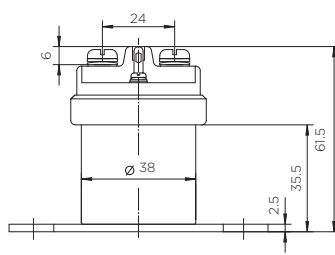
### Side mounting

Types 26.70... & 26.73...



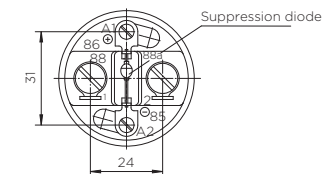
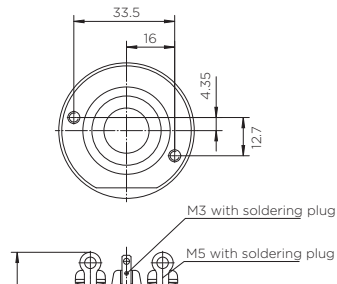
### Long bottom mounting

Types 26.70... & 26.73...



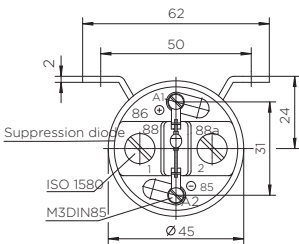
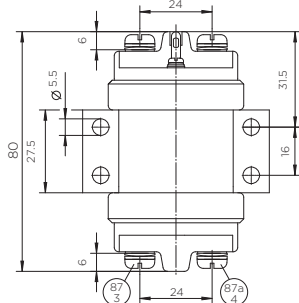
### Stud mounting

Types 26.70.06/07/08/09



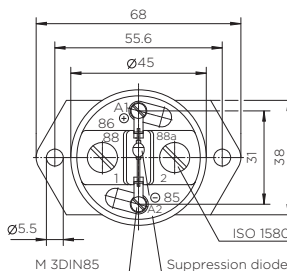
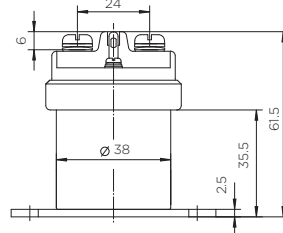
### Change over NO/NC

Types 26.72...



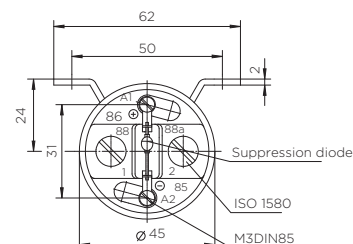
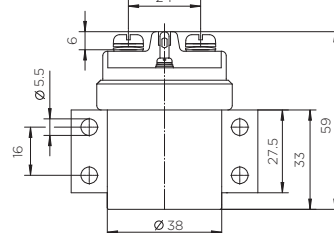
### Short form bottom mounting

Types 26.71...



### 4-hole side mounting

Types 26.71...



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