Multi-function timer range

80.01 - Multi-function & multi-voltage

80.01 NFC - Multi-function & multi-voltage Can be programmed via smartphone with NFC communication using the Finder Toolbox app (for Android and iOS).

- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology

80.01/80.01 NFC
Box clamp



For UL ratings see:
"General technical information" page X

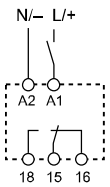
For outline drawing see page 9

80.01

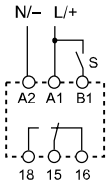


- Multi-voltage
- Multi-function

AI: On-delay
DI: Interval
SW: Symmetrical flasher (starting pulse on)
BE: Off-delay with control signal
CE: On- and off-delay with control signal
DE: Interval with control signal on



Wiring diagram (without control signal)



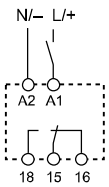
Wiring diagram (with control signal)

NEW 80.01 NFC

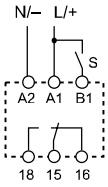


- Multi-voltage
- Multi-function
- Programmable via NFC

AI: On-delay
DI: Interval
LI: Asymmetrical flasher (starting pulse ON)
BE: Off-delay with control signal
CEb: ON and OFF independent delays with control signal
DE: Interval with control signal on
LE: Asymmetrical flasher (starting pulse on) with control signal



Wiring diagram (without control signal)



Wiring diagram (with control signal)

Contact specification			
Contact configuration		1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current	A	16/30	16/30
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	4000	4000
Rated load AC15 (230 V AC)	VA	750	750
Single phase motor rating (230 V AC)	kW	0.55	0.55
Breaking capacity DC1: 24/110/220 V	A	16/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	500 (10/5)	500 (10/5)
Standard contact material		AgNi	AgNi
Supply specification			
Nominal voltage (U_N)	V AC (50/60 Hz)	12…240	12…240
	V DC	12…240	12…240
Rated power AC/DC	VA (50 Hz)/W	< 1.8/< 1	< 1.8/< 1
Operating range	V AC	10.8…265	10.8…265
	V DC	10.8…265	10.8…265
Technical data			
Specified time range		(0.1…2)s, (1…20)s, (0.1…2)min, (1…20)min, (0.1…2)h, (1…24)h	
Repeatability	%	± 1	± 1
Recovery time	ms	100	100
Minimum control impulse	ms	50	50
Setting accuracy-full range	%	± 5	± 5
Electrical life at rated load in AC1	cycles	$50 \cdot 10^3$	$50 \cdot 10^3$
Ambient temperature range	°C	–20…+60	–20…+60
Protection category		IP 20	IP 20
Approvals (according to type)			

80 SERIES
Modular timers 16 A

Mono-function timer range

80.11 - On-delay, multi-voltage

80.21 - Interval, multi-voltage

80.41 - Off-delay with control signal, multi-voltage

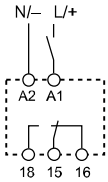
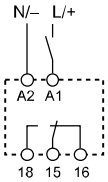
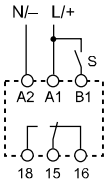
- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology

80.11/80.21/80.41
Box clamp



For UL ratings see:
"General technical information" page X

For outline drawing see page 9

	80.11	80.21	80.41
			
	• Multi-voltage • Mono-function	• Multi-voltage • Mono-function	• Multi-voltage • Mono-function
	AI: On-delay	**DI:** Interval	**BE:** Off-delay with control signal
			
	Wiring diagram (without control signal)	Wiring diagram (without control signal)	Wiring diagram (with control signal)
Contact specification			
Contact configuration	1 CO (SPDT)	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current A	16/30	16/30	16/30
Rated voltage/ Maximum switching voltage V AC	250/400	250/400	250/400
Rated load AC1 VA	4000	4000	4000
Rated load AC15 (230 V AC) VA	750	750	750
Single phase motor rating (230 V AC) kW	0.55	0.55	0.55
Breaking capacity DC1: 24/110/220 V A	16/0.3/0.12	16/0.3/0.12	16/0.3/0.12
Minimum switching load mW (V/mA)	500 (10/5)	500 (10/5)	500 (10/5)
Standard contact material	AgNi	AgNi	AgNi
Supply specification			
Nominal voltage (U_N) V AC (50/60 Hz)	24…240	24…240	24…240
V DC	24…240	24…240	24…240
Rated power AC/DC VA (50 Hz)/W	< 1.8/< 1	< 1.8/< 1	< 1.8/< 1
Operating range V AC	16.8…265	16.8…265	16.8…265
V DC	16.8…265	16.8…265	16.8…265
Technical data			
Specified time range	(0.1…2)s, (1…20)s, (0.1…2)min, (1…20)min, (0.1…2)h, (1…24)h		
Repeatability %	± 1	± 1	± 1
Recovery time ms	100	100	100
Minimum control impulse ms	—	—	50
Setting accuracy-full range %	± 5	± 5	± 5
Electrical life at rated load in AC1 cycles	$50 \cdot 10^3$	$50 \cdot 10^3$	$50 \cdot 10^3$
Ambient temperature range °C	–20…+60	–20…+60	–20…+60
Protection category	IP 20	IP 20	IP 20
Approvals (according to type)			

IX-2025, www.findernet.com

Mono-function timer range

80.61 - Power off-delay (True off-delay), multi-voltage

80.82 - Star-delta, multi-voltage

80.91 - Asymmetrical flasher, multi-voltage

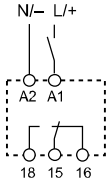
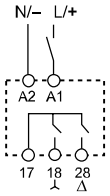
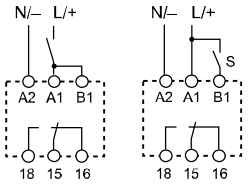
- 17.5 mm wide
- Rotary range selector, and timing trimmer
- Four time scales from 0.05s to 180 s (type 80.61)
- Four time scales from 0.1 s to 20 min (type 80.82)
- Six time scales from 0.1 s to 24 h (type 80.91)
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology

80.61/80.82/80.91
Box clamp



For UL ratings see:
"General technical information" page X

For outline drawing see page 9

		80.61	80.82	80.91
				
		• Multi-voltage • Mono-function	• Multi-voltage • Mono-function • Transfer time can be regulated (0.05…1)s	• Multi-voltage • Mono-function
		BI: Power off-delay (True off-delay)	**SD:** Star-delta	**LI:** Asymmetrical flasher (starting pulse on) **LE:** Asymmetrical flasher (starting pulse on) with control signal
				
		Wiring diagram (without control signal)	Wiring diagram (without control signal)	Wiring diagram (without control signal) / Wiring diagram (with control signal)
Contact specification				
Contact configuration		1 CO (SPDT)	2 NO (DPST-NO)	1 CO (SPDT)
Rated current/Maximum peak current	A	8/15	6/10	16/30
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	2000	1500	4000
Rated load AC15 (230 V AC)	VA	400	300	750
Single phase motor rating (230 V AC)	kW	0.3	—	0.55
Breaking capacity DC1: 24/110/220 V	A	8/0.3/0.12	6/0.2/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	500 (12/10)	500 (10/5)
Standard contact material		AgNi	AgNi	AgNi
Supply specification				
Nominal voltage (U_N)	V AC (50/60 Hz)	24…240	24…240	12…240
	V DC	24…220	24…240	12…240
Rated power AC/DC	VA (50 Hz)/W	< 0.6/< 0.6	< 1.3/< 0.8	< 1.8/< 1
Operating range	V AC	16.8…265	16.8…265	10.8…265
	V DC	16.8…242	16.8…265	10.8…265
Technical data				
Specified time range		(0.05…2)s, (1…16)s, (8…70)s, (50…180)s	(0.1…2)s, (1…20)s, (0.1…2)min, (1…20)min	(0.1…2)s, (1…20)s, (0.1…2)min, (1…20)min, (0.1…2)h, (1…24)h
Repeatability	%	± 1	± 1	± 1
Recovery time	ms	—	100	100
Minimum control impulse	ms	500 (A1-A2)	—	50
Setting accuracy-full range	%	± 5	± 5	± 5
Electrical life at rated load in AC1	cycles	$100 \cdot 10^3$	$60 \cdot 10^3$	$50 \cdot 10^3$
Ambient temperature range	°C	–20…+60	–20…+60	–20…+60
Protection category		IP 20	IP 20	IP 20
Approvals (according to type)				

80 SERIES
Modular timers 8 A

Multi-function and multi-voltage

- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- New multi-voltage versions with "PWM clever" technology

80.51.0.240.0000
Box clamp



80.51.0.240.P000
Push-in terminal

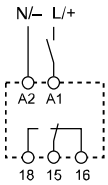


80.51

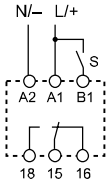


- Multi-voltage (24…240) V AC/DC
- Multi-function

AI: On-delay
DI: Interval
SW: Symmetrical flasher (starting pulse on)
BE: Off-delay with control signal
CE: On- and off-delay with control signal
DE: Interval with control signal on



Wiring diagram
(without control signal)



Wiring diagram
(with control signal)

For UL ratings see:
"General technical information" page X

For outline drawing see page 9

Contact specification		
Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	8/16
Rated voltage/ Maximum switching voltage	V AC	250/400
Rated load AC1	VA	2000
Rated load AC15 (230 V AC)	VA	400
Single phase motor rating (230 V AC)	kW	0.3
Breaking capacity DC1: 24/110/220 V	A	8/0.3/0.12
Minimum switching load	mW (V/mA)	500 (10/5)
Standard contact material		AgNi
Supply specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	24…240
	V DC	24…240
Rated power AC/DC	VA (50 Hz)/W	< 1.8/< 1
Operating range	V AC	17…265
	V DC	17…265
Technical data		
Specified time range		(0.1…2)s, (1…20)s, (0.1…2)min, (1…20)min, (0.1…2)h, (1…24)h
Repeatability	%	± 1
Recovery time	ms	≤ 50
Minimum control impulse	ms	50
Setting accuracy-full range	%	± 5
Electrical life at rated load in AC1	cycles	$100 \cdot 10^3$
Ambient temperature range	°C	–20…+60
Protection category		IP 20
Approvals (according to type)		

Multi-function and multi-voltage solid-state output timer

- 17.5 mm wide
- Six time scales from 0.1 s to 24 h
- High input/output isolation
- 35 mm rail (EN 60715) mount
- Multi-voltage output (24…240 V AC/DC), independent from the input voltage
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip
- Multi-voltage input with "PWM clever" technology

80.71
Box clamp

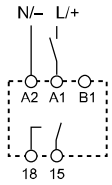


80.71

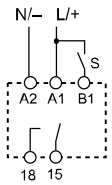


- Multi-voltage
- Multi-function

AI: On-delay
DI: Interval
SW: Symmetrical flasher (starting pulse on)
BE: Off-delay with control signal
CE: On- and off-delay with control signal
DE: Interval with control signal on



Wiring diagram
(without control signal)



Wiring diagram
(with control signal)

For outline drawing see page 9

Output circuit		
Contact configuration		1 NO (SPST-NO)
Rated current	A	1
Rated voltage	V AC/DC	24…240
Switching voltage range	V AC/DC	19…265
Rated load AC15	A	1
Rated load DC1	A	1
Minimum switching current	mA	0.5
Max. "OFF-state" leakage current	mA	0.05
Max. "ON-state" voltage drop	V	2.8
Input circuit		
Nominal voltage (U_N)	V AC (50/60 Hz)	24…240
	V DC	24…240
Rated power	VA (50 Hz)/W	1.3/1.3
Operating range	V AC	19…265
	V DC	19…265
Technical data		
Specified time range		(0.1…2)s, (1…20)s, (0.1…2)min, (1…20)min, (0.1…2)h, (1…24)h
Repeatability	%	± 1
Recovery time	ms	100
Minimum control impulse	ms	50
Setting accuracy-full range	%	± 5
Electrical life	cycles	$100 \cdot 10^6$
Ambient temperature range	°C	–20…+50
Protection category		IP 20
Approvals (according to type)		CE UKCA EAC cULus RINA

Ordering information

Example: 80 series, modular timers, 1 CO (SPDT) - 16 A, supply rated at (12…240)V AC/DC.

8 0	.	0	1	.	0	.	2 4 0	.	0	0	0	0

Series

Type
0 = Multi-function (AI, DI, SW, BE, CE, DE)
0 = Multi-function (AI, DI, LI, BE, CEb, DE, LE) only for 80.01 NFC
1 = On-delay (AI)
2 = Interval (DI)
4 = Off-delay with control signal (BE)
5 = Multi-function (AI, DI, SW, BE, CE, DE)
6 = Power off-delay (True off-delay) (BI)
7 = Multi-function with solid state output (AI, DI, SW, BE, CE, DE)
8 = Star-delta (SD)
9 = Asymmetrical flasher (LI, LE)

No. of poles
1 = 1 CO (SPDT)
1 = 1 NO (SPST-NO), type 80.71 only
2 = 2 NO (DPST-NO), type 80.82 only

Supply version
0 = AC (50/60 Hz)/DC

Supply voltage
240 = (12…240)V AC/DC (80.01, 80.01 NFC, 80.91)
240 = (24…240)V AC/DC (80.11, 80.21, 80.41, 80.51, 80.71, 80.82)
240 = (24…240)V AC, (24…220)V DC (80.61)

Versions
0 = Standard
N = NFC (only for 80.01 NFC)
P = Push-in (only for 80.51.0.240.P000)

Technical data

Insulation						
Dielectric strength			**80.01/80.01 NFC/11/21/41/51/82/91**		**80.61**	**80.71**
	between input and output circuit	V AC	4000		2500	2500
	between open contacts	V AC	1000		1000	—
Insulation (1.2/50 µs) between input and output		kV	6		4	4
EMC specifications						
Type of test			**Reference standard**	**80.01/ 80.01 NFC/11/21/41/61/71/91**		**80.51/82**
Electrostatic discharge	contact discharge		EN 61000-4-2	4 kV		4 kV
	air discharge		EN 61000-4-2	8 kV		8 kV
Radio-frequency electromagnetic field (80 ÷ 1000 MHz)			EN 61000-4-3	10 V/m		10 V/m
Fast transients (burst) (5-50 ns, 5 kHz) on Supply terminals			EN 61000-4-4	4 kV		4 kV
Surges (1.2/50 µs) on Supply terminals	common mode		EN 61000-4-5	4 kV		4 kV
	differential mode		EN 61000-4-5	4 kV		4 kV
on start terminal (B1)	common mode		EN 61000-4-5	4 kV		4 kV
	differential mode		EN 61000-4-5	4 kV		4 kV
Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals			EN 61000-4-6	10 V		10 V
Magnetic field immunity			EN 61000-4-8	40 A/m		—
Radiated and conducted emission			EN 55011	class B		class A
Other data						
Current absorption on signal control (B1)			< 1 mA			
Power lost to the environment	without contact current	W	1.4			
	with rated current	W	3.2			

Terminals		**Box clamp**		**Push-in terminals (only for 80.51.0.240.P000)**	
Wire strip length	mm	8		10	
Screw torque	Nm	0.8		—	
Max. wire size		solid cable	stranded cable	solid cable	stranded cable
	mm^2	1 x 4 / 2 x 2.5	1 x 4 / 2 x 2.5	1 x 2.5 / 2 x 2.5	1 x 2.5 / 2 x 2.5
	AWG	1 x 12 / 2 x 14	1 x 12 / 2 x 14	1 x 14 / 2 x 14	1 x 14 / 2 x 14