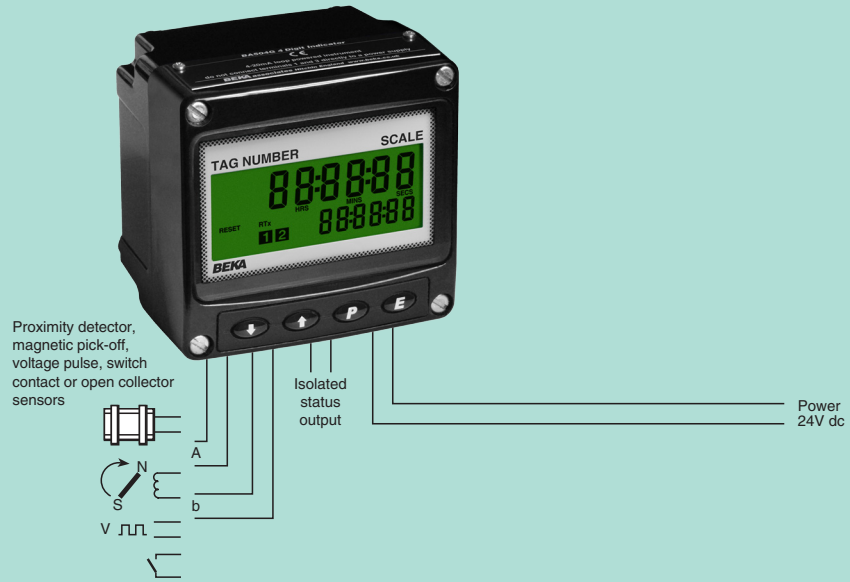

Shown with optional backlight

BA574G

two input timer or clock

General purpose

- **Configurable input: magnetic pick-off, switch contact, proximity detector, open collector or voltage pulse.**
- **Dual control outputs**
- **Separate primary and secondary displays.**
- **IP66 GRP enclosure**
- **Isolated pulse output**
- **Simple on-site scale card installation.**
- **Optional: Backlight**
- **3 year guarantee**

www.beka.co.uk/ba574g

The BA574G is a two input, general purpose field mounting instrument that can be configured as a Timer or as a Clock. As a Timer it is able to measure the elapsed time between external events, or control external events via the status and control outputs. When configured as a Clock the instrument can display time in a variety of formats. The BA574G is controlled by two inputs which may be independently configured on-site to operate with a magnetic pick-off, switch contact, proximity detector or a voltage output sensor.

Configuration may be performed on-site via the front panel push buttons using the easy to use and well documented menus. The Timer employs a state and event structure to simplify configuration. The BA574G can be supplied configured to customers requirements including a customer defined printed scalecard for no additional charge.

Applications as a Timer include displaying the time interval between two events detected by one or two sensors. The Timer can also control an external event using the isolated open collector status output, or the dual isolated control outputs. The Timer is able to perform many common industrial timing applications, such as those associated with dosing or sampling requiring a valve to be regularly opened for a defined time. A powerful cycle function is included which can be configured to repeat the timing function up to 99 times or continuously, with up to 100 hours delay between timed periods.

When configured as a Clock the BA574G can display local time in various twelve or twenty four hour formats, and may be synchronised to a pre-set time via the external reset input. The isolated open collector status output can be configured to switch on and off twice at pre-set times during each twenty four hour period and may be used for repetitive timing functions. If more than one circuit is to be controlled, the isolated dual control outputs may be used. Each output may be independently configured to switch on and off twice at pre-set times during each twenty four hour period.

The display has high contrast and a wide viewing angle, enabling the instrument to be read in most most lighting conditions over a wide temperature range.

Display backlighting which is internally powered from the timer or clock, is available as a factory fitted option. It provides green background illumination enhancing daylight viewing and allowing the display to be easily read at night or when installed in a poorly illuminated area.

IP66 protection is provided by the robust GRP enclosure which has stainless steel fittings, a silicone gasket and an 8mm thick armoured glass window. Ingress and impact protection have been independently assessed by Intertek.

Panel mounting timers or clocks with a variety of display and enclosure sizes are also available, see BA577E, BA577E-SS and BA578E. For applications in hazardous areas certified field and panel mounting timers or clocks are also available.

BEKA associates

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SPECIFICATION

Power supply

Voltage	10 to 30V dc
Current	16mA max plus 16mA for optional backlight

Input

	Lower	Upper	switching thresholds
Switch contact	100Ω	1kΩ	
Proximity detector (NAMUR)	1.2mA	2.1mA	
Open collector	2kΩ	10kΩ	
Magnetic pick-off	0	+40mV	
Voltage pulse (low)	1V	3V	30V max
Voltage pulse (high)	3V	10V	30V max

Status output — Isolated, open collector

Ron	51Ω + 3V max
Roff	1MΩ min
Vmax	30V dc
I max	10mA

Control outputs — Two outputs each of which may be independently configured as a NO or NC output.

Outputs	Isolated single pole, voltage free solid state switch.
Ron	5Ω + 0.7V max
Roff	IMΩ min
Vmax	30V dc
Imax	200mA

Display

Type	Liquid crystal
Primary	18mm high
Secondary	12mm high
Format	hh:mm:ss ; hh:mm ; mm:ss or s
Timer reset or Clock sync	Contact closure with resistance less than 10kΩ

Timer

Maximum duration	99h 59m and 59s or equivalent in any display format.
Maximum delay between cycles.	99h 59m and 59s or equivalent in any display format.
Grand total run-time	5 x 10^6h maximum

Clock

Accuracy	Less than ±0.43s error per day over operating temperature range.

Environmental

Operating temp	-40 to +70°C display -20 to +70°C
Storage temp	-40 to +85°C
Humidity	to 95% at 40°C non condensing
Vibration	Report available
Enclosure	
Material	GRP
Ingress	IP66
EMC	Complies with 2014/30/EU

Mechanical

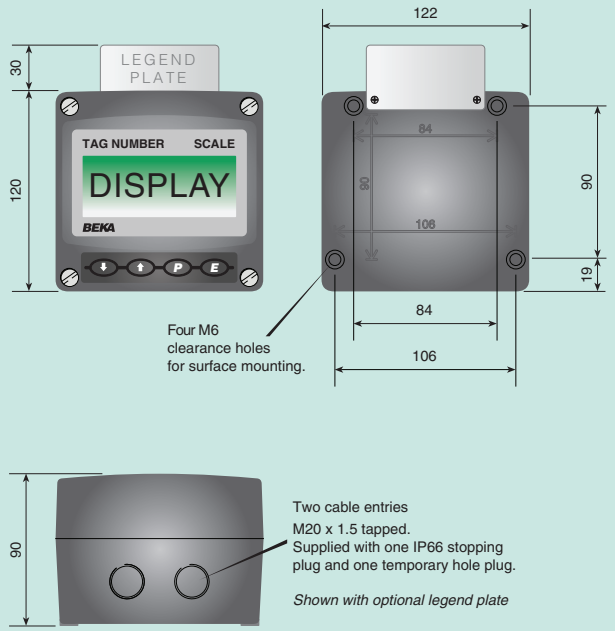
Terminals	Screw clamp for 0.5 to 1.5mm²
Weight	1.1kg

Accessories

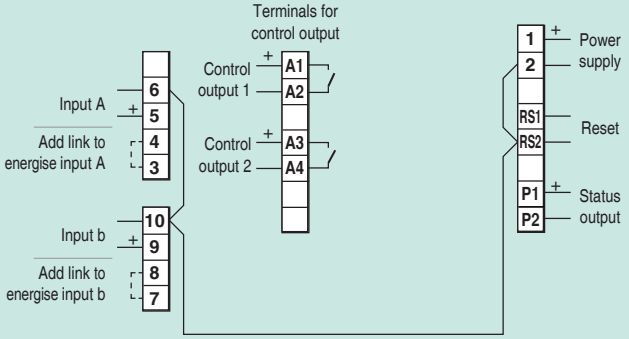
Backlight	Green LED internally powered
Scale card	Blank card fitted to all instruments. Can be supplied printed with specified units of measurement and tag information for no additional charge at time of purchase. #
Legend plate	316 stainless steel plate laser engraved with tag number or application information attached to rear of the instrument, visible from the front. #
Pipe mounting kit	BA393G 316 stainless steel #
Panel mounting kits	BA394G 316 stainless steel not sealing # BA494G GRP sealing #

 # See accessory datasheet for details

DIMENSIONS (mm)



TERMINAL CONNECTIONS



HOW TO ORDER

	Please specify for each input
Model number	BA574G
Function	Timer or Clock
Input	Type *

Accessories	Please specify if required
Display backlight	Backlight
Scale card marking	
Units	Legend required
Tag	Legend required *No charge if ordered with instrument*
Stainless legend plate	Legend required
Pipe mounting kit	BA393G
Panel mounting kit	BA394G or BA494G

** BA574G can be supplied configured as required for no additional charge, see instruction manual, which can be downloaded from* **www.beka.co.uk/ba574g** *for details. If configuration information is not supplied, instrument will be configured as a Timer with open collector inputs. Can easily be reconfigured on-site.*