

# Photoelectric Switches

## PH8AU

### Slot-type photoelectric switches PH8AU

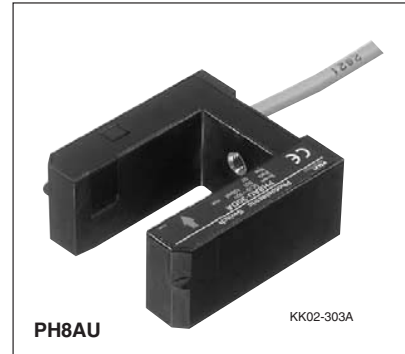
#### ■ Description

Slot-type photoelectric switches ideal for conveyer application, such as elevators and multi-level parking lifts.

The emitter and receiver are constructed as a single unit, eliminating the need to adjust the optical axis or sensitivity. Same mounting method as our slot-type magnetically operated reed switches (type PM1U).

#### ■ Features

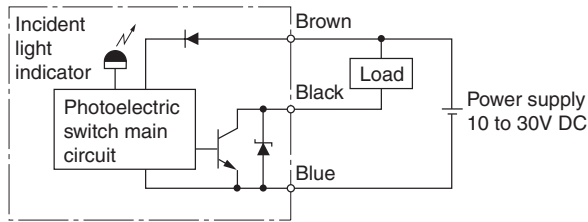
- Protective structure conforms to IP66 (IEC standards), so the product can be used safely in environments with water droplets.
- High speed response time of 1ms.
- Wide supply operating voltage range from 10 to 30V DC.



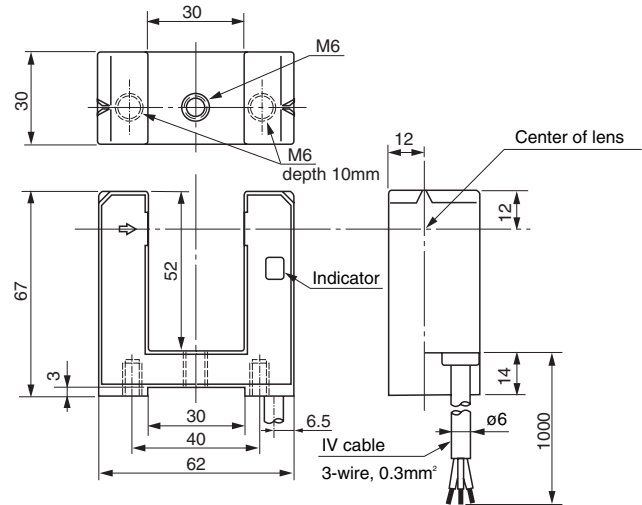
#### ■ Specifications

Type	PH8AU-30DALF	PH8AU-30DBLF
Operating distance (slot width)	30mm	
Detectable object	Opaque, over 6mm diameter	
Light emitting element	Infrared LED	
Supply voltage	10 to 30V DC (Peak must be within this range)	
Current consumption	45mA or less	
Detecting output	(NPN) transistor open collector output, load current	
	Dark-ON	Light-ON
Response time	1ms or less	
Indicator	Output indicator (Red LED)	
Connection	1m attached cable	
Ambient operating illumination	Incandescent lamp: 3000 lx or less, sun light: 10000 lx or less at receiving surface	
Ambient temperature	Operating: -25 to +55°C	
	Storage: -30 to 70°C (no icing)	
Ambient humidity	Operating: 35 to 85%RH	
	Storage: 35 to 95%RH	
Degree of protection	IP66 (IEC)	
Insulation resistance	20MΩ min. (500V DC Megger)	
Dielectric strength	1000V AC 50/60Hz 1 minute	
Vibration	10 to 55Hz, 1.5mm double amplitude (X, Y, Z direction respectively 2 hours)	
Shock	500m/s <sup>2</sup> three times for each of three directions X, Y and Z	
Protection circuit	Reverse connection and surge voltage	
Material	Lens	PC
	Casing	PPS

■ Wiring diagrams



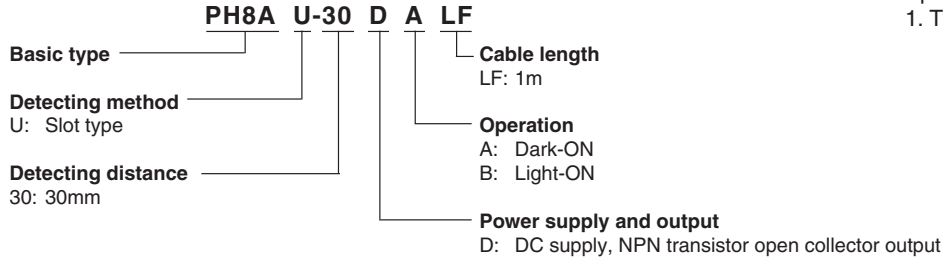
■ Dimensions, mm



Mass 150g

05

■ Type number nomenclature



■ Ordering information

Specify the following:  
1. Type number (ordering code)