

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

## INVADER SHORT SURFACE

### A33268-

base number	Color Temperature	Finishes (Diamond)	Finishes (Triangle)	Finishes (Circle)	Reflector Options
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Invader Standard
Subseries: Invader Short
Partner: Prolicht
Division: Architectural
Installation: Surface
Product Type: Wall Surface
Mounting Location: Wall
Light Distribution: Downlight

#### PHYSICAL

Shape: Cylinder
Diameter (mm): 75
Diameter (in): 2 <sup>15</sup> / <sub>16</sub>
Height (mm): 150
Depth (mm): 115
Height (in): 5 <sup>7</sup> / <sub>8</sub>
Depth (in): 4 <sup>1</sup> / <sub>2</sub>
Weight (kg): 0.753
Weight (lbs): 1.66
Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR
Fixture Material: Aluminum

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 7.7
Total Output Wattage (W): 7
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 350
Upon Request: (Not included - see components) Remote: 0-10Vdc dimming / Phase dimming @120Vac only / Non-dimming 120/277Vac

#### LED

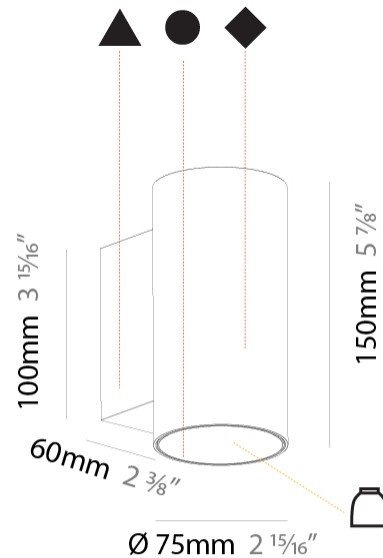
Number of LEDs: 1
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 390 / 400 / 421 / 430
CRI: >90 CRI
Lamp Life (hrs): 50000

#### OPTICAL

Reflector: 20 / 40 / 60
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#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



## INVADER SHORT SURFACE

A33268-

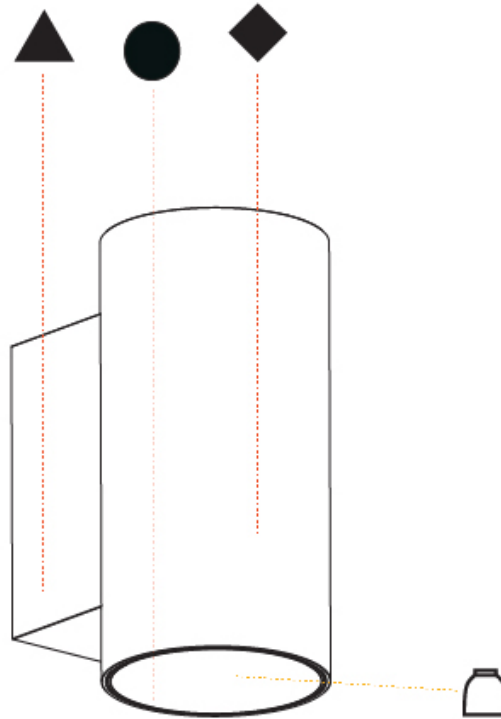
PROJECT \_\_\_\_\_

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## INVADER STANDARD RECESSED

### A37952-

base number	Color Temperature	Finishes (Diamond)	Lens Options
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Invader Standard
Partner: Prolicht
Division: Architectural
Installation: Recessed
Product Type: Downlight
Mounting Location: Ceiling
Light Distribution: Downlight

#### PHYSICAL

Aperture Sizes - Downlights: 1"
Shape: Round
Diameter (mm): 45
Diameter (in): 1 3/4
Height (mm): 49
Height (in): 1 15/16
Ceiling Thickness (mm): 10 / 12.5 / 15
Ceiling Thickness (in): 3/8 or 1/2 or 9/16
Min. Recessing Depth (mm): 150
Min. Recessing Depth (in): 5 7/8
Weight (kg): 0.084
Weight (lbs): 0.185
Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR
Fixture Material: Aluminum
Cut-out Measurements: Dia: 41mm / 1 5/8"

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 2.2
Total Output Wattage (W): 2
Dimming: Non-Dimmable
Driver Included: No
Driver Location: Remote
Driver Type: Constant Current - 120 / 277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 700
Upon Request: 0-10Vdc dimming / Phase dimming 120Vac

#### LED

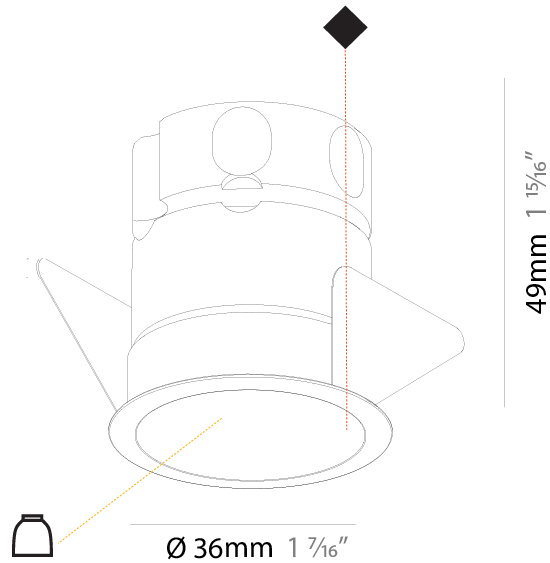
Number of LEDs: 1
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 160 / 170 / 176 / 180
Nominal Lumen (lm): 160 / 170 / 176 / 180
CRI: >90 CRI
Lamp Life (hrs): 50000

#### OPTICAL

Reflector°: 12 / 20 / 35
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#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



## INVADER STANDARD RECESSED

A37952-

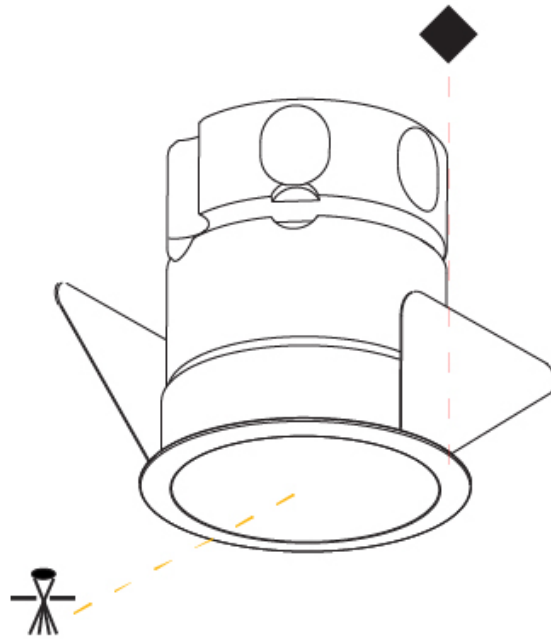
PROJECT

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## INVADER STANDARD RECESSED

### A37959-

base number    Color    Finishes    Beam Angle  
 Temperature    (Diamond)    Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Invader Standard  
 Partner: Prolicht  
 Division: Architectural  
 Installation: Recessed  
 Product Type: Downlight  
 Mounting Location: Ceiling  
 Light Distribution: Downlight

#### PHYSICAL

Aperture Sizes - Downlights: 1"  
 Shape: Round  
 Diameter (mm): 45  
 Diameter (in): 1 3/4  
 Height (mm): 71  
 Height (in): 2 13/16  
 Ceiling Thickness (mm): 10 / 12.5 / 15  
 Ceiling Thickness (in): 3/8 or 1/2 or 9/16  
 Min. Recessing Depth (mm): 150  
 Min. Recessing Depth (in): 5 7/8  
 Weight (kg): 0.102  
 Weight (lbs): 0.23  
 Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR  
 Fixture Material: Aluminum  
 Cut-out Measurements: Dia: 41mm / 1 5/8"

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)  
 Input Wattage (W): 6.8  
 Total Output Wattage (W): 6.2  
 Dimming: Non-Dimmable  
 Driver Included: No  
 Driver Location: Remote  
 Driver Type: Constant Current - 120 / 277Vac  
 Driver Class: Class 2  
 Input Voltage (V): 120 - 277  
 Constant Current (MA): 250  
 Upon Request: 0-10Vdc dimming / Phase dimming 120Vac

#### LED

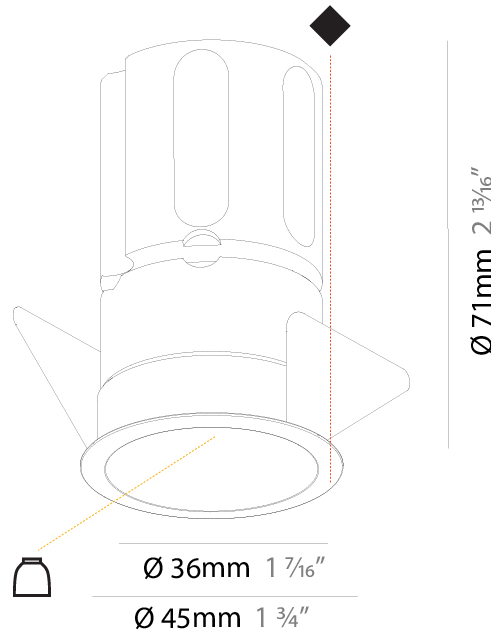
Number of LEDs: 1  
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000  
 Max. Delivered Lumen (lm): 618 / 646 / 674 / 683  
 Nominal Lumen (lm): 731 / 762 / 801 / 817  
 CRI: >90 CRI  
 Lamp Life (hrs): 50000

#### OPTICAL

Beam Angle: 48 / 56

#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards  
 IP rating: IP20



## INVADER STANDARD RECESSED

A37959-

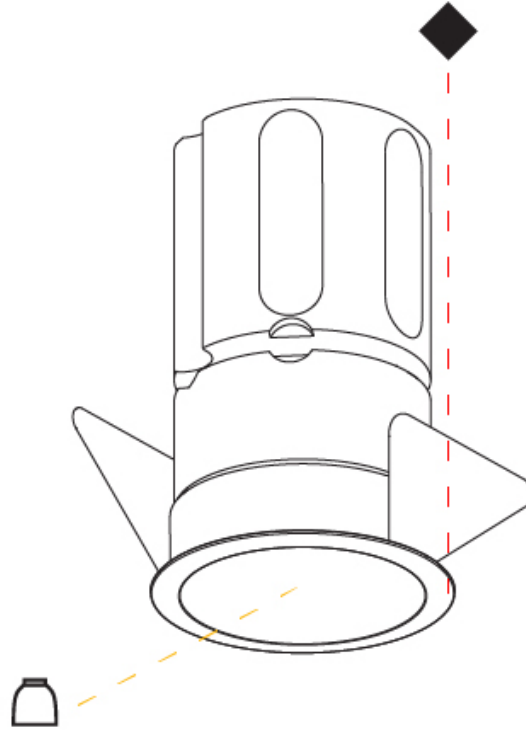
PROJECT

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## INVADER ON ROUND SURFACE

### A3D008-

base number    Color    Finishes    Finishes    Reflector  
 Temperature    (Diamond)    (Triangle)    Options

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Invader Standard  
 Subseries: Invader On Round  
 Partner: Prolicht  
 Division: Architectural  
 Installation: Surface  
 Product Type: Ceiling Surface  
 Mounting Location: Ceiling  
 Light Distribution: Downlight

#### PHYSICAL

Aperture Sizes - Downlights: 2"  
 Shape: Cylinder  
 Diameter (mm): 75  
 Diameter (in): 2 15/16  
 Height (mm): 150  
 Height (in): 5 7/8  
 Weight (kg): 0.489  
 Weight (lbs): 1.08  
 Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR  
 Fixture Material: Aluminum Die Cast

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)  
 Input Wattage (W): 11  
 Total Output Wattage (W): 10  
 Dimming: Non-Dimmable  
 Driver Included: Yes  
 Driver Location: Integrated  
 Driver Type: Constant Current  
 Driver Class: Class 2  
 Input Voltage (V): 120  
 Constant Current (MA): 350  
 Upon Request: Remote: 0-10Vdc dimming / Phase dimming 120Vac / Non-dimming 120/277Vac

#### LED

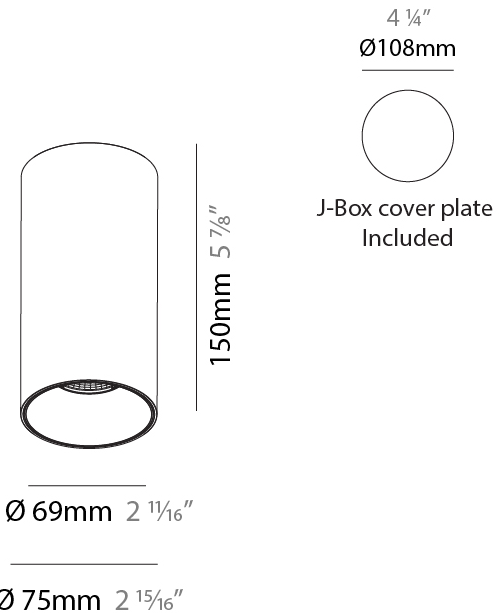
Number of LEDs: 1  
 Color Temperature (°K): 2700 / 3000 / 3500 / 4000  
 Max. Delivered Lumen (lm): 660 / 680 / 715 / 730  
 CRI: >90 CRI  
 Lamp Life (hrs): 50000

#### OPTICAL

Reflector: 20 / 40 / 60

#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards  
 IP rating: IP20



## INVADER ON ROUND SURFACE

A3D008-

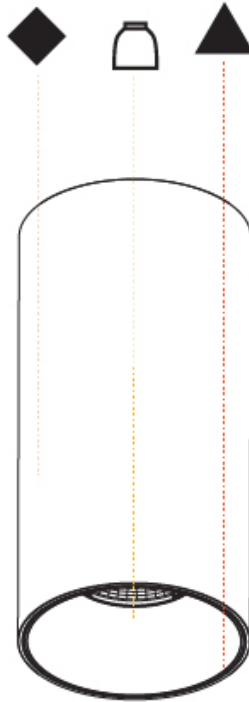
PROJECT

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QUANTITY

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## INVADER ON ROUND SURFACE

### A3D012-

base number	Color Temperature	Finishes (Diamond)	Finishes (Triangle)	Finishes (Circle)	Reflector Options
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

#### GENERAL

Series: Invader Standard
Subseries: Invader On Round
Partner: Prolicht
Division: Architectural
Installation: Surface
Product Type: Ceiling Surface
Mounting Location: Ceiling
Light Distribution: Downlight

#### PHYSICAL

Aperture Sizes - Downlights: 2"
Shape: Cylinder
Diameter (mm): 75
Diameter (in): 2 15/16
Height (mm): 300
Height (in): 11 13/16
Weight (kg): 0.92
Weight (lbs): 2.02
Fixture Finish: SSR / BKV / CWI / CRY / HAB / UFT / ITA / RUA / FTG / MYG / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / CHC / COM / ABZ / JAG / OBR / MOS / ROR
Fixture Material: Aluminum Die Cast

#### ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 11
Total Output Wattage (W): 10
Dimming: Non-Dimmable
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current
Driver Class: Class 2
Input Voltage (V): 120
Constant Current (MA): 350
Upon Request: Remote: 0-10Vdc dimming / Phase dimming 120Vac / Non-dimming 120/277Vac

#### LED

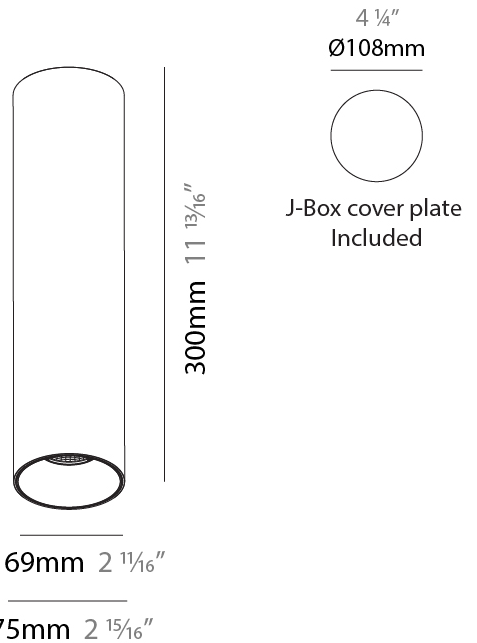
Number of LEDs: 1
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 660 / 680 / 715 / 730
CRI: >90 CRI
Lamp Life (hrs): 50000

#### OPTICAL

Reflector: 20 / 40 / 60
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#### RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



## INVADER ON ROUND SURFACE

A3D012-

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## INVADER STANDARD COLOR FINISH CHART

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### Fixture Finish

Sparkling Silver - 01 (SSR)



Black Velvet - 02 (BKV)



Crystal White - 03 (CWI)



Creamy - 04 (CRY)



Hampton Bay - 05 (HAB)



Urban Forest - 07 (UFT)



In the Army - 08 (ITA)



Rusty Angel - 09 (RUA)



Fade to Gray - 12 (FTG)



Mysterious Gray - 13 (MYG)



Lost Dream - 15 (LOD)



Purple Sky - 16 (PUS)



Fresh Oh - 17 (FRO)



Funky P. - 18 (FUP)



Kissing Aphrodite - 19 (KIA)



Poseidon's Paradise - 20 (POP)



Blue Sky - 21 (BLS)



Spring Green - 22 (SPG)



Mellow Yellow - 23 (MEY)



Golden Heart - 24 (GOH)



Champagne Cream - 26 (CHC)



Copper Mine - 27 (COM)



Ancient Bronze - 28 (ABZ)



Jazz Gold - 29 (JAG)



Olive Breeze - 30 (OBR)



Moonlight Silver - 31 (MOS)



Rosewood Red - 32 (ROR)



**Digital:** Not all screens are calibrated the same, and therefore, colors will appear differently between screens.

**Physical:** When texture is involved, there will be variations in color, character and tone within a product series and between product families.

**Champagne Cream, Copper Mine, Ancient Bronze + Jazz Gold:** These finishes have slight fading from specific powder coating production. Each luminaire will slightly vary.



### LEGEND

	floor-mounted		pivotal		special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
	wall and ceiling: recessed and surface mounted		rotating		warm dim / natural dimming LED
	ceiling-mounted and wall-mounted		illuminate tilted		rechargeable battery powered
	wall-mounted		color of suspension cable		fixture with natural vivid LED (upon request)
	omni-directional light distribution		length of suspension cable		color rendering index
	direct light distribution		reflector degree selection		color temperature
	direct/indirect light distribution		super spot		lumen (luminous flux)
	indirect light distribution		lens		efficacy (lumens per watt)
	asymmetric light distribution		lens pack		Unified Glare Rating (UGR) range from 5-40
	aura light distribution		shine ring		marine grade (AISI 316 stainless steel)
	round wall or ceiling cut-out		integrated shine ring with diffuser		walk on
	square wall or ceiling cut-out		free individual colors 01-29		drive on
	the supplied jig specifies the cutout dimensions		individual colors: 00 (free of charge), 01-25 (extra charge)		Dark Sky Compliance
	minimum distance (meters) lamp - object		luminaire part to be colored (F1)		Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
	recessed depth		luminaire part to be colored (F2)		lamp protected against explosion
	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
	ceiling thickness selection		luminaire part to be colored (F4)		acoustic material
	dimnable DP (phase), DV (0-10V), DD (dali), DS (step-dim)		luminaire part to be colored (F5)		protection class I, protection insulation
	included or excluded LED driver/transformer/control gear		color of 3-circuit adaptor		protection class II, protection insulation
	separately switchable		indirect diffuser		ETL Certified to UL and CSA Standards
	sensor		direct diffuser		UL Certified to UL and CSA Standards
	remote control		ball-proof (upon request)		CSA Certified to UL and CSA Standards
	available upon request		accessory		Certified for North American Standards

### IP RATING

	protected against ingress of solid bodies greater than 12.5mm (finger)
	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
	protected against ingress of dust protected against jets of water
	protected against ingress of dust protected against powerful jets of water or heavy seas
	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
	protected against ingress of dust protected against immersion of water under pressure for long periods

### IK RATING

	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)