Technical Guide

INDICES VK®

VK® vandal resistance rating

Indice VK [®] 1 st positio		2 nd position	(3 rd position)	
0	< 10 joules	no protection	no protection	
1	10 joules (*)	standard fastenings	flame resistance	
2	20 joules (*)	vandal-resistant fastenings (or secure closure)	graffiti resistance	
3	50 joules (*)	rip-out resistant	increased UV resistance (tropicalization)	
4	80 joules	rip-out-resistant + standard fastenings	resistance to marine environment	
5	100 joules	rip-out-resistant + vandal-resistant fastenings	-	
6	120 joules	anti-ligature + vandal-resistant fastenings	-	
7	150 joules	-	-	

By virtue of their characteristics, anti-ligature luminaires

are also rip-out-resistant.

The figure in the 3rd position is optional.

* Standardized values as per EN 62262: see IK rating

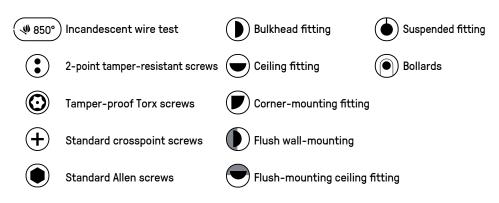
INDICES IK

NF EN 62262 standard IK rating for resistance to mechanical impacts

Impact resistance	Mass / Drop height
IK 1 / 0,140 joule	0,25 kg : 56 mm
IK 2 / 0,20 joule	0,25 kg : 80 mm
IK 3 / 0,35 joule	0,25 kg : 140 mm
IK 4 / 0,50 joule	0,25 kg : 200 mm
IK 5 / 0,70 joule	0,25 kg : 280 mm
IK 6 / 1 joule	0,25 kg : 400 mm
IK 7 / 2 joules	0,50 kg : 400 mm
IK 8 / 5 joules	1,70 kg : 300 mm
IK 9 / 10 joules	5 kg : 200 mm
IK 10 / 20 joules	5 kg : 400 mm
IK 11 / 50 joules	10 kg : 500 mm
IK 11+ / 80 joules	10 kg : 800 mm
IK 11++ / 100 joules	15 kg : 800 mm
IK 11++ / 120 joules	20 kg : 800 mm
IK 11++ / 150 joules	25 kg : 800 mm

The EN 62262 standard provides for a maximum resistance of IK11 = 50 joules.

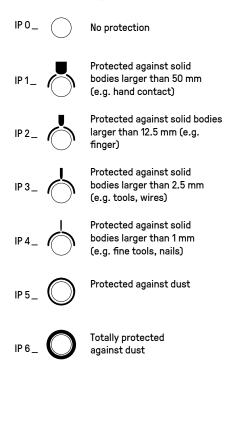
PICTOGRAMS



IP RATINGS

1st figure:

Protection against penetration by solid objects and contact with live parts.



2nd figure: Protection against liquid penetration.

IP_0	\bigcirc	No protection
IP _1	0	Protected against vertical water drops
IP _ 2	0	Protected against water drops up to 15° from the vertical
IP_3	0	Protected against rain up to 60° from the vertical
IP _ 4	0	Protected against water splashing from any directions
IP_5	0	Protected against low-pressure water jets from any direction using a lance
IP _ 6	0	Protected against high- pressure water jets from any direction
IP _ 7	0	Protected against the effects of immersion
IP _ 8	0	Equipment submersible under specified conditions

IK and VK ratings, please see catalogue pages 256.

CLASSIFICATIONS OF ELECTRICAL APPLIANCES

	Class I	Luminaire with functional insulation and with metal parts earthed. Earth connection obligatory.
	Class II	Luminaire with double or increased insulation of the active parts. No earth connection.
\langle	Class III	Class II luminaire with additional protection achieved by powering from an SELV supply (Safety Extra-Low Voltage, U < 50 V AC).