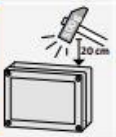
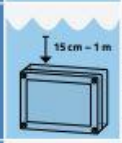
FIBOX
Enclosing innovations

IP AND IK CLASSIFICATION

Ingress protection class of enclosures is given in form of IP classification, a two-digit coding which is shown below. Fibox has tested the enclosures according to IEC 529 or EN 60529. The latter requires the second digit to be tested from class 6 upwards separately to each level of class, thus the double marking IP 66 / IP 67 indicates that the actual tests have been made for both levels.

The European standard for enclosures, EN 50298 also includes IK impact test. This test is described in EN 50102. The data for impact resistant is available for each individual Fibox enclosures.

FIRST IP NUMBER Protection against solid objects			SECOND IP NUMBER Protection against liquids			IK CODE Protection against mechanical impacts		
IP	Example	Test	IP	Example	Test	IK	Example	Test
0		no protection	0		no protection	00		no protection
1		protected against solid objects over 50 mm e.g. acci-dental touch by hands	1		protected against vertically falling drops of water	01 – 05		impact < 1 joule
2		protected against solid objects over 12 mm e.g. fingers	2		protected against direct sprays of water up to 15° from the vertical	06		impact 1 joule
3		protected against solid objects over 2,5 mm (tools + small wires)	3		protected against sprays to 60° from the vertical	07		impact 2 joule
4		protected against solid objects over 1 mm (tools + small wires)	4		protected against water sprayed from all directions – limited ingress permitted	08		impact 5 joule
5		protected against dust – limited ingress permitted (no harmfull deposit.)	5		protected against low pressure jets of water from all directions – limited ingress permitted	09		impact 10 joule
6		totally protected against dust	6		protected against strong jets of water eg for use on shipdecks – limited ingress permitted	10		impact 20 joule
			7		protected against the affects of immersion between 15 cm and 1 m permitted			
			8		protected against long periods of immersion under pressure			