

Intended use

Safety Edges are used for protecting against risks at shearing and crushing edges, for instance at machine guards, lifting tables, packaging machines, palletizing and depalletizing systems, automated guided vehicles (AGV's), theater stages and many others. They can be used in indoor and outdoor applications.

All Safety Edges of series HSC[®] meet the requirements for safety components according to the Machinery Directive 2006/42/EC.

Please note: When using cooling agents, oils, acids etc. please contact manufacturer for more information.

Function

Except for dimensions and shapes, the Safety Edges have a generally identical design. They contain the following components:

- Haake Safety Contact chain[®] HSC[®] (N/C contacts)
- Aluminium profiles for mounting the sensor part at the machine body
- Double-insulated connection cables to the machine control system
- TPE hollow-chamber profile and closure plugs

Upon actuation of the Safety Edge (sensor), the current flow is interrupted, based on the special geometry of the chain links inside the sensor. This interruption represents the OFF condition of the output signal switching device and thus transfers the safety output signal to the machine control system. The Safety Edge meets the requirements for automatic reset, since after removing the operating force, it will return by itself into the ON condition.

If it is required to work with a manual reset, this has to be implemented according to DIN EN ISO13856-2 by the machine control system.

Due to the positive break of the supply (current circuit is broken), a separate safety control unit is not required. Safety Edge and control system together have to achieve the Performance Level that has been determined in the risk assessment.

Technical data

Operating temperature:	–20 +55 °C
Enclosure sealing:	IP65
Nominal voltage:	<50 V AC, 75 V DC (with safe separation from the supply system) A voltage source for SELV or PELV systems according to DIN VDE 0100-410 shall be used.
Nominal current:	max. 0,5 A, AC/DC The power supply shall be protec- ted externally (fuse 0.5 A nominal value)!
Control category:	3 (to DIN EN ISO 13849-1)
Performance Level:	Possible up to d
Connection cable:	double-insulated, highly flexible single-core cables (FLKM)
Connection cable length:	max. 50 m
Safety Edge length:	max. 6 m (single unit)
Material of sensor:	TPE
Material of profile:	Aluminium

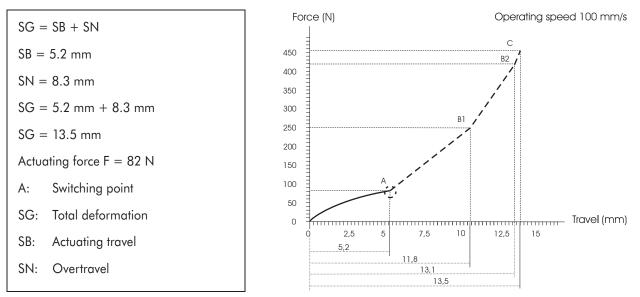


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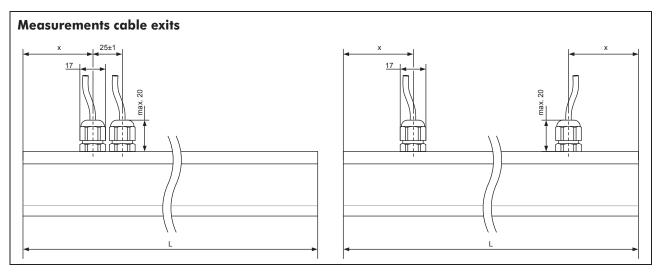
Safety Edge HSC®

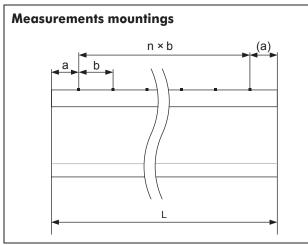
HSC 35-20-01 T

Force-travel-diagram



Distance dimensions (see also request form on page 3)





General tolerances ISO 2768-m



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Safety Edge HSC®

Inquiry

First and last name	E-Mail:
Company:	
Street and no.:	
Postal code/ZIP and city:	Country:
Phone no.:	Fax no.:

Length and application

Length: mm	Application:	🛛 Indoor dry	Indoor medium	Outdoor wet

Type and position of cable exit (see also Distance dimensions on page 2)

Top (only available with threaded bolts, see also Mounting possibilities)						
		Top left, x = 50 mm		Top right, x = 50 mm		Top left and right, x = 50 mm
At s	side					
		Front left, x = 50 mm		Front right, x = 50 mm		Front left and right, x = 50 mm
		Rear left, x = 50 mm		Rear right, x = 50 mm		Rear left and right, x = 50 mm
Frontal						
	e a construction of the second	Frontal left		Frontal right		Frontal left and right

Cable length

□ 1.000 mm (Standard)	mm (Upon request, surcharge)

Mounting possibilities

□ No mounting possibilities (made by client)		
\Box Threaded bolts M6 $ imes$	□ 14	□ 23 (effective length)
\Box Threaded bolts M8 $ imes$	□ 18	□ 28 (effective length)
\Box Boreholes ø = 6 mm		

Dimensions (see also Distance dimensions on page 2)

Mounting dimensions are specified by variables a and b.		
a is for first and last distances (symmetrical design) and		
b is for intermediate distances.		
□ Selected by manufacturer	□ Own distances a = b = mm	



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