

TECHNICAL FEATURES BUMPER

	GSBPS01	GSBPS02	GSBPS03
Max activation angle	$\pm 45^\circ$		
Pre-run (test piece Ø 80, at 100 mm/s)	< 20% of sensor depth		
Overrun (test piece Ø 80, at 100 mm/s)	50% of sensor depth		
Non-deformable part	30% of sensor depth		
Max activation force (test piece Ø 80, at 10 mm/s) [N]	32	56	24
Max activation force (test piece Ø 80, at 100 mm/s) [N]	48	56	32
Max admissible load [N]	500		
Max length of sensor* [mm]	3000		
Weight [kg/m]	5,5	8	11
Max operating voltage	24 Vdc		
Power cord**	4x0.35 mm ² standard length 3 m 4x1 mm ² length >20 m (max 100 m)		
Output contact	N.O.		
Operating temperature of sensor	-10°C to + 50°C		
Type of coating	Yellow/black fabric, PVC, spark-proof and eco-leather		
Degree of protection (according to EN 60529) of sensor	IP 54***		
B _{10D}	260000		
Part of human body which can be detected****	Hand, limb, body		
References standard	EN ISO 13856-3; EN ISO 13849-1		
Safety Parameter - Sensor + control unit	GSBPS0x + GP02/E	GSBPS0x + GP02R.T	GSBPS0x + GP04T
Category	3		
PL	d		
PFH _D [1/h]	8.58*10 ⁻⁸	8.58*10 ⁻⁸	9.29*10 ⁻⁸
No. of operations/year*****	12000		
Usage category	AC1 – 3 A DC13 – 1.5 A	AC15 (230) – 1.2 A	DC13 – 0.4 A
T10D [years] control unit	20	20	-
EC Declaration	21CMAC0014		
Other European Directives			
2012/19/UE	RAEE		
2011/65/UE	RoHS		
Regulation (CE) n. 1907/2006	REACH		

* Max length of sensor 3000 mm. For longer lengths, sensors can be divided into several parts and connected in series.

** For lengths over 20 m, use wires with section of 1 mm².

*** With welded PVC coating; degree of protection IP65.

**** Bumpers are not suitable to detect fingers.

***** Considering the max number of operations. Once the time indicated on the data sheet above has elapsed, contact the Gamma System After-Sales Service.

Recovery after deformation:

For a deformation equal to the running stroke equivalent to 250 N applied throughout the 24-hour period, the depth variation is less than 20% after 30s, less than 10% after 5 min and less than 5% after 30 min.