

TECHNICAL FEATURES OF THE GSTS SENSOR

Sensor	Mat with PVC coating		Coating with PVC+ALUMINUM
Max thickness [mm]	10		14
Weight/m ² [kg]	15 (approx.)		22 (approx.)
Operating pressure	< 300 N Ø mm 80 / < 600 N Ø mm 200		
Max admissible load	2000 N / 80 Ø mm (avoid manoeuvres with heavy means such as lift trucks, motor vehicles and like)		
Response time with Gamma System control units	Single sensor: ≤ 60 ms Combination of sensors: ≤124 ms		
Mechanical life of internal contact	2.000.000 operations		
PFH (mat)	4.29*10 ⁻⁸		
Max operating voltage	24 Vdc/ac		
Max operating current	60 mA / 24 V		
Electric resistance of sensor m ² [Ω/m ²]	1.7		
Linear resistance of cable [Ω/m]	0.056		
Max connection length [m]	100		
Connection cable section	min. 0.35 mm ² For cables with L>20 m min. 1 mm ²		
Outlet contact	NO		
Operating temperature	+5°C to +60°C		
Storage temperature	+5°C to +60°C		
Degree of protection	IP65		
Chemical resistance	Oils, hydrocarbons		
B _{10D}	2.000.000		
Max dimensions of each safety mat [mm]	1500 x 2000		
Dead zone	Welding peripheral zone 15 mm		
Reference Standards	EN ISO 13856-1:2013, EN ISO 13849-1		
Safety Parameters: Sensor + Control Unit	GSTS01 + GP02/E	GSTS01 + GP02R.T	GSTS01 + GP04T
Category	3	3	3
PL	d	d	d
PFH _D [1/h]	9.23*10 ⁻⁸	8.58*10 ⁻⁸	9.29*10 ⁻⁸
No. of operations/year max.	80000		100000
Usage categories	DC13 – 1,5A	AC15 – 1,2A	-
T _{10D} [years] control unit *	9.25	12.5	-
Max controllable surface [m ²]	5	10	
CE Declaration	21CMAC0015		
Other European Directives			
2012/19/UE	RAEE		
2011/65/UE	ROHS		
Regulation (CE) n°1907/2006	REACH		

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