



SAFETY PRODUCTS

Programmable safety controller

Pluto

Pluto is a cost effective, powerful and compact programmable safety controller used in a variety of applications: in large and small systems, for process and functional safety, and even on trains.

Pluto can control most types safety devices on the market, as well as ABB Jokab Safety DYNlink safety devices, analog sensors, encoders, contactors, valves and many more. Programming is done easily in the complimentary software, Pluto Manager.

The models with safety bus communication simplify the design of safety systems, thanks to our All-Master concept. A wide range of gateways allows communication with other networks and also remote monitoring of a Pluto system. Some models also offer AS-i safety.





Speed up installation

Great flexibility

Up to 32 Pluto units can exchange data on the same safety bus, and the unique All-Master system allows simple scaling, splitting and modification.

Powerful yet compact

Unexpected features for its size, like real programming and speed monitoring, enables replacement of more complex PLC systems in some applications.

More sensors and less cabling

The DYNlink solution allows series connection of up to 10 safety devices on each input.
StatusBus and light button feature also reduces cabling to a minimum.



Optimum interface

Programming software free of charge

Pluto Manager is an easy to use PC based programming software provided free of charge.

Easy programming

Ready-made TÜV approved function blocks for safety functions make it easy to reach PL e/SIL3. Ladder logic and text programming allow the design of more advanced functions and the control of complete machines.

Communication with external networks

Pluto gateways provide a two-way communication between the Pluto safety bus and other field buses.



Continuous operation

Easy modification

Easy and quick replacement of units without any configuration.

Flexible monitoring

Online monitoring from any Pluto in the system and remote monitoring and control with an Ethernet gateway.





Pluto ordering table

Pluto is available in different models depending on the needs of your application. Optional features includes bus communication, AS-i bus, high resolution analog inputs, current monitoring and adaption for harsh environments.



Pluto S20 v2

AS-i	Safety bus	Failsafe outputs ^{a)}	Failsafe inputs (max) ^{b)}	Analog inputs (max) ^{b)}	Fast coun- ter inputs (max) ^{b)}	StatusBus inputs (max) ^{b)}	Non failsafe outputs (max) ^{b)}	Width mm	Туре	Order code
No	No	4	16	1 ^{c)}	-	4	8	45	Pluto S20	2TLA020070R4700
		6	40	3 ^{c)}	-	4	16	90	Pluto S46	2TLA020070R1800
	Yes	-	22	1 °)	•	4	8	45	Pluto B22 e)	2TLA020070R4800
		2	4	-	-	2	2	45	Pluto O2 f)	2TLA020070R8500
		4	16	1 °)	-	4	8	45	Pluto A20 g)	2TLA020070R4500
									Pluto B20	2TLA020070R4600
				4 d) + 1 c)	-	4	8	45	Pluto D20	2TLA020070R6400
									Pluto D20 (Harsh Env) h)	2TLA020070R6401
		6	40	3 ^{c)}	-	4	16	90	Pluto B46	2TLA020070R1700
			39	8 ^{d)}	4	4	15	90	Pluto D45	2TLA020070R6600
									Pluto D45 (Harsh Env) h)	2TLA020070R6601
Yes	Yes	4	8	4 ^{c)}	-	4	4	45	Pluto AS-i	2TLA020070R1100
		6	36	3 ^{c)}	-	4	16	90	Pluto B42 AS-i	2TLA020070R1400



Pluto D45

Approvals	Railway: TÜV Rheinland InterTraffic C C 2006/42/EC - Machinery 2014/30/EU - EMC 2011/65/EU - RoHS EN ISO 13849-1:2008+AC:2009, EN 62061:2005, IEC 61511-1:2003+Corr.1:2004, EN 50156-1:2004, IEC 61508:2010, EN 60204-1:2006+A1:2009, EN 50178:1997, EN 61496-1:2004+A1:2008+AC:2010, EN 574:1996+A1:2008						
Conformity Functional safety data							
runctional safety data		PFH _n Failsafe relay outputs	PFH _n Failsafe transistor outputs				
EN 61508:2010	SIL3	2.00 × 10 ⁻⁹	1.5 × 10 ⁻⁹				
EN 62061:2005+A1:2013	SILCL3	2.00 × 10 ⁻⁹	1.5 × 10 ⁻⁹				
EN ISO 13849-1:2008	PL e/Cat.4	2.00 × 10 ⁻⁹	1.5 × 10 ⁻⁹				