

# D41G high-coded guard lock safety door switch

## Product Guide



## Overview

For OEMs, machine builders, and end users seeking to better protect operators by preventing bypassing, the D41 Series offers a single product family of RFID high-coded door switches that simplifies the design and reduces costs.

For applications involving full body access (such as robotics and palletizers) in which operators could be trapped during maintenance or troubleshooting, the D41G provides a guard lock with different actuator options including emergency escape door handles. An asymmetric structure allows it to be combined with left and right actuators. The D41G is compliant with ANSI/RIA 15.06.

### Applications

- Safety systems that are experiencing frequent bypassing
- Machines failing to meet specifications due to tampering
- Robotic systems and machine tools with full body access
- Palletizing and depalletizing systems

### Primary Benefits

- Minimizes bypassing to meet the highest level of protection
- Quick automatic pairing makes installation and troubleshooting easy
- Pairing for door switches connected in series reduces commissioning time
- Three-color LED indicators and diagnostic output improve troubleshooting
- Optional integrated emergency exit unit ensures that people can exit hazardous areas even if power supply is unavailable
- Single product family reduces total cost of ownership

## Key features

- Individual coding, single or multiple teaching type
- Power-to-lock and power-to-unlock versions
- OSSD configuration for guard monitoring only or guard and lock monitoring
- Actuators for right and left hinged or sliding doors with door handle and optional emergency exit and lockout tag
- Actuators with no door handle for sliding doors, right and left options available with optional release tab
- Three-color LED indicators and diagnostic output
- Protection class IP66, IP67
- Up to 31 devices connected in series
- Complies with ISO 14119 (Type 4/High Coded), ISO 13849-1 (PLe)

# D41G Product Selection



	Part Number	Lock and Release	Teaching	OSSD Configuration	Connection Method
Sensor <sup>1</sup>	D41G-1YDA-N2	Power to unlock	Individual coding, single teaching	Guard monitoring and lock monitoring	M12 connector
	D41G-2YDA-N2	Power to unlock	Individual coding, multiple teaching		
	D41G-2YDG-N2	Power to lock			
	D41G-2YDG-T1	Power to lock		Screw Terminal	
	D41G-2ZDA-T1	Power to unlock			Only guard monitoring
Actuator Type <sup>1</sup>	Part Number	Handle Position	Emergency Exit Unit	Lock-out option	
With door handle	D41G-A2L-E1	Left	Yes	-	
	D41G-A2L-E1T		Yes	Yes	
	D41G-A2R-E1	Right	Yes	-	
	D41G-A2R-E1T		Yes	Yes	
Non door handle	D41G-A1L	Left	-	-	
	D41G-A1R	Right	-	-	

1. Actuators sold separately

## Accessories

	Part Number	Description
Cables	D41L-8P5-CFM12-905M	Cable, 5m, M12 connector, IP69
	D41L-8P5-CFM12-910M	Cable, 10m, M8 connector, IP69

## Related Products

Part Number	Description
G9SE-401	Monitoring Relay, 24 VDC, Inputs: dual or single CH, Auto or Manual reset. Outputs: Dual Safety (4PST-NO) and Aux Single (PNP)
G9SP-N10S	Programmable safety controller, 24 VDC, 10 safety inputs, 4 safety outputs (solid state), 4 test pulses - Optional Ethernet/IP or serial boards available
NX-SL5500	CIP Safety / FSoE CPU, 128 connections, 2MB memory compatible with NX-CSG320 and NX102
NXSID800	NX Safety, 8-input, 2 test output module, PNP outputs from safety light curtains and laser area scanners, dry contacts from switches
NXSOD400	NX Safety, 4-output module, PNP, 0.5A/point connects frequency inverters, servos, force guided relays