

I.S. Isolators (Modules) Digital Output Type 9151

- Intrinsically safe output [Ex ia] IIC
- Galvanic isolation between input, output and power supply
- Power supply 18 .. 35 V DC
- EMC tested, CE marking

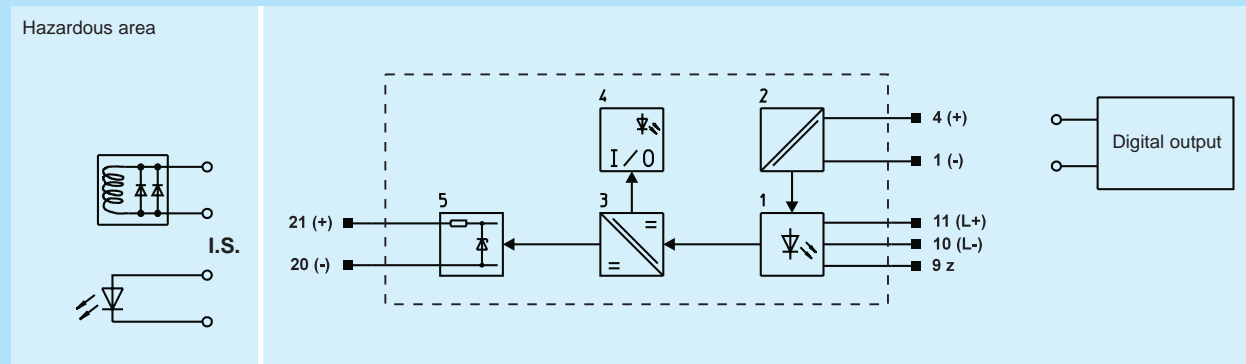
LED indication power supply

LED indication switching state

STAHL

Basic function: binary/digital output, 1 channel.

The digital outputs are used for the intrinsically safe operation of solenoid valves, LED indicating lamps etc.



Selection table	
Output signal (safety values)	Ordering code
8 V / 150 mA	9151 / 10-11-10
28 V / 110 mA	9151 / 10-16-10

Safety data for output	
Certifications	BVS (Europe, CENELEC), CSA (Canada), SEV (Switzerland), FTZU (Czech Republic), EVPU (Slovakia), FM (USA)
Marking	[EEx ia] IIC/IIB according to CENELEC
Classification	associated electrical apparatus

Safe maximum values (CENELEC)		
Types	9151 / 10-11-10	9151 / 10-16-10
Max. voltage U_m	8 V	28 V
Max. current I_m	150 mA	110 mA
Max. power P_m	300 mW	770 mW
Max. capacitance for [EEx ia] IIC / IIB	13 μ F / 160 μ F	0.07 μ F / 0.5 μ F
Max. inductance for [EEx ia] IIC / IIB	1.3 mH / 7 mH	3 mH / 12 mH

Further information and combinations of values, see certifications

Technical data			
Power supply			
Rated voltage U_N		24 V DC	
Voltage range		18..35 V	
Types		9151 / 10-11-10	9151 / 10-16-10
Rated current (for $R_{L,min}$)	≤	80 mA	105 mA
Power consumption (for $R_{L,min}$)		1.9 W	2.5 W
Polarity reversal protection		yes	
Input			
Control input:			
Voltage for ON	≥	5 V	
Voltage for OFF	≤	2 V	
Current	≤	5 mA	
Max. permissible voltage		35 V	
Output			
Types		9151 / 10-11-10	9151 / 10-16-10
Internal resistance	R_i ≤	75 Ω	310 Ω
Min. permissible load resistance	$R_{L,min}$ ≥	0 Ω	300 Ω

Selection and application					
Solenoid valve			Solenoid valve		
Asco	IM 12	9151/10-16-10	Honeywell	488660 488670	9151/10-16-10 9151/10-16-10
Bürkert	6013/AC10	9151/10-16-10	Nass Magnet	1259 060450/5142	9151/10-16-10
	6014/AC10	9151/10-16-10			
	6104/G1 642 735	9151/10-16-10			
	6106/AC21	9151/10-16-10			
Herion	2014	9151/10-16-10	Numatics	92088 92089 L1-I L2-I SPA3	9151/10-16-10 9151/10-16-10 9151/10-16-10 9151/10-16-10 9151/10-16-10
	2015	9151/10-16-10			
	2016	9151/10-16-10			
Hoerbiger	Piezo 2000 P8 381-RFC	9151/10-16-10	Samson	3701, 3775, 3962, 3963 -11 -14 -17	9151/10-11-10 9151/10-11-10 9151/10-16-10
Honeywell	481850	9151/10-16-10	Telektron	L	9151/10-16-10
	481860	9151/10-16-10			
	483330.01 (Booster)	9151/10-16-10			
	483960	9151/10-16-10			
	488650	9151/10-16-10			
Further types of valves on request					
Indicating lamps:					
R. STAHL	8415	9151/10-16-10			

