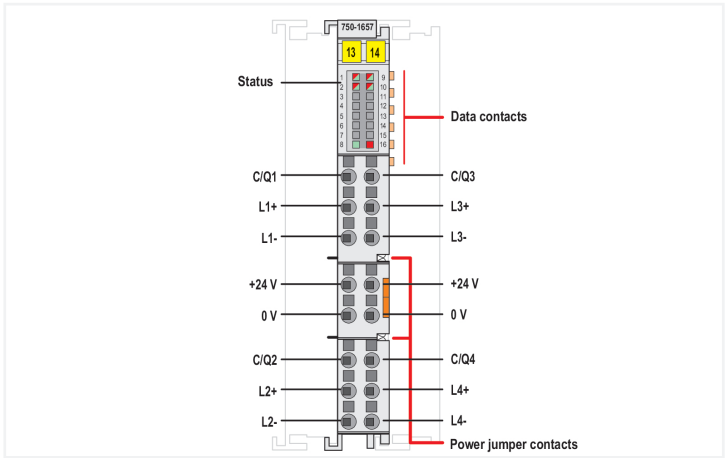
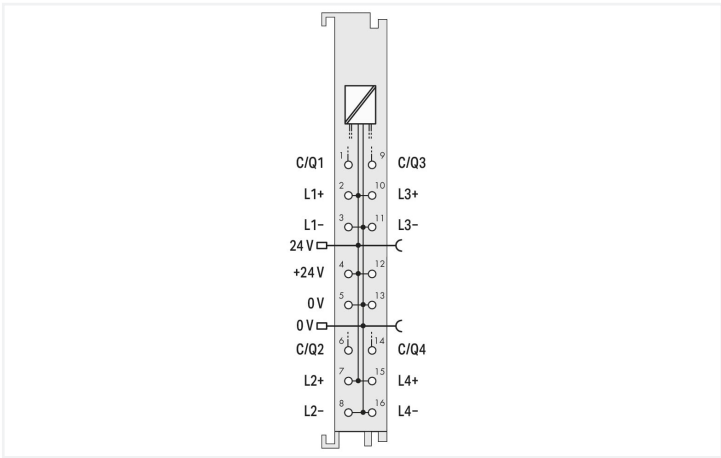
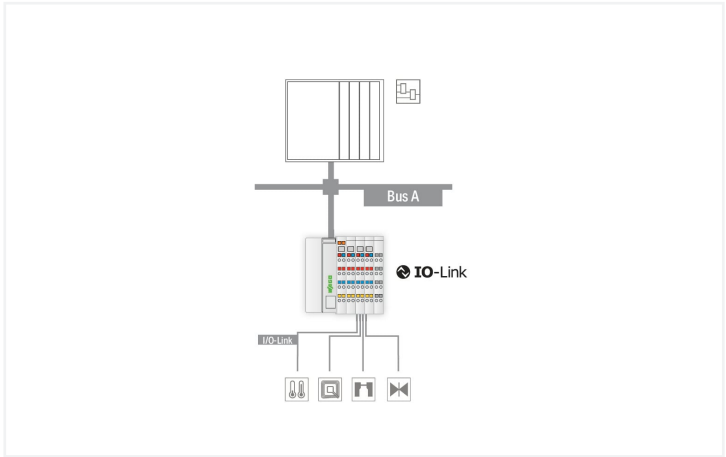




Increasingly complex products, manufacturing flexibility and high demands on quality assurance require intelligent, configurable and programmable sensors. To fulfill these demands, IO-Link streamlines the varying interfaces required to connect to a control system and tooling. A 3-wire connection can communicate process data (as single bits, bytes and data blocks for input and output data). It also communicates acyclic data (for identification, configuration, parameterization and diagnostics) with up to 230.4 kBaud to both sensors and actuators. The functions and performance data are defined via device description files for the IO-Link devices and can be easily customized via WAGO-I/O-CHECK or the WAGO IO-Link Configurator. If a device must be replaced, the configuration and parameterization can be automatically restored without maintenance personnel. This makes project design, installation and operation considerably simpler!

The module meets the IO-Link test specification V1.1.3 from January 2021.

Four different IO-Link devices, or even digital standard sensors/actuators, can connect to the WAGO 750-1657 IO-Link Master simultaneously. At just 12 mm (0.47 inch) wide, the module has three connections for each of the four channels.

Technical data	
Topology	4 IO-Link ports (point-to-point)
Sensor connection	4 x (3-wire)
Actuator connection	4 x (3-wire)
Supply current per port	Max. 0.3 A (max. 1 port up to 1 A)
Transmission modes	4.8 kBaud (COM 1), 38.4 kBaud (COM 2), 230.4 kBaud (COM 3)
Data width	4–48 bytes, configurable
Supply voltage (system)	5 VDC; via data contacts
Current consumption (5 V system supply)	52 mA
Supply voltage (field)	24 VDC (-15 ... +20 %); via power jumper contacts (power supply via blade contact; transmission (supply voltage field side only) via spring contact)
Current consumption, field supply (module with no external load)	11 mA
Isolation	500 V system/field



Technical data	
Indicators	LED (1, 2, 9, 10) red/green: operating status C/Q 1 ... C/Q 4; LED (8) green: operating status IO-Link master; LED (16) red: group error
Number of incoming power jumper contacts	2
Number of outgoing power jumper contacts	2
Current carrying capacity (power jumper contacts)	10 A

Connection data	
Connection technology: inputs/outputs	16 x Push-in CAGE CLAMP®
Connection type 1	Inputs/outputs
Solid conductor	0.08 ... 1.5 mm² / 28 ... 16 AWG
Fine-stranded conductor	0.25 ... 1.5 mm² / 22 ... 16 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection requirement (permissible cable length)	20 m

Physical data	
Width	12 mm / 0.472 inches
Height	100 mm / 3.937 inches
Depth	69 mm / 2.717 inches
Depth from upper-edge of DIN-rail	61.8 mm / 2.433 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Housing material	Polycarbonate; polyamide 6.6
Fire load	0.837 MJ
Weight	47.9 g
Conformity marking	CE

Environmental requirements	
Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2, EN 61131-2
EMC emission of interference	per EN 61000-6-4, EN 61131-2
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm



Commercial data		
PU (SPU)		1 pcs
Country of origin		DE
GTIN		4066966426274
Customs tariff number		85389091890

Environmental Product Compliance		
RoHS Compliance Status		Compliant,With Exemption
RoHS Exemption		6(c) 7(a) 7(c)-I 7(c)-II

Approvals / Certificates

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 750-1657

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Documentation				
Manual			System Description	
4-Port IO-Link Master	V 1.1.0 05.09.2023	pdf 4613.82 KB	750/753 Series I/O- System – General Pro- duct Information	pdf 953.35 KB
			Overview on WAGO-I/ O-SYSTEM 750 appro- vals	pdf 770.48 KB



Device Files

Device Driver			
WAGO USB Service Kabel Treiber / Serie 750 und 857	6.5.3.0 10.09.2014	zip 4721.96 KB	

Libraries

Library			
Function blocks for the IO-Link module 750-657	1.0.4 07.09.2017	zip 444.88 KB	