

PUSHING EASY INSTALLATION

People | Power | Partnership

HARTING

Sensor actuator boxes



Transforming customer wishes into concrete solutions



The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking technology, as well as in manufacturing, mechatronics and software creation. The Group uses these skills to develop customized solutions and products such as connectors for energy and data-transmission/data-networking applications, including, for example, mechanical engineering, rail technology, wind energy plants, factory automation and the telecommunications sector. In addition, HARTING also produces electro-magnetic components for the automobile industry and offers solutions in the field of housing technology and shop systems.

The HARTING Group currently comprises 58 sales companies and production plants worldwide employing a total of about 5,000 staff.



We aspire to top performance.

Connectors ensure functionality. As core elements of electrical and optical termination, connection and infrastructure technologies, they are essential in enabling the modular construction of devices, machines and systems across an extremely wide range of industrial applications. Their reliability is a crucial factor guaranteeing smooth functioning in the manufacturing area, telecommunications, applications in medical technology – in short, connectors are at work in virtually every conceivable application area. Thanks to the ongoing development of our technologies, our customers enjoy investment security and benefit from durable, long-term functionality.

Wherever our customers are, we're there.

Increasing industrialization is creating growing markets that are characterized by widely diverging demands and requirements. What these markets all share in common is the quest for perfection, increasingly efficient processes and reliable technologies. HARTING is providing these technologies – in Europe, the Americas and Asia. In order to implement customer requirements in the best possible manner, the HARTING professionals at our international subsidiaries engage in up-close, partnership-based interaction with our customers, right from the very early product development phase.

Our on-site staff form the interface to the centrally coordinated development and production departments. In this way, our customers can rely on consistently high, superior product quality – worldwide.

Our claim: Pushing Performance.

HARTING provides more than optimally attuned components. In order to offer our customers the best possible solutions, on request HARTING contributes a great deal more and is tightly integrated into the value-creation process.

From ready-assembled cables through to control racks or ready-to-go control desks. Our aim is to generate maximum benefit for our customers – with no compromises!

Quality creates reliability - and warrants trust.

The **HARTING** brand stands for superior quality and reliability – worldwide. The standards we set are the result of consistent, stringent quality management that is subject to regular certifications and audits.

EN ISO 9001, the EU Eco-Audit and ISO 14001 are key elements here. We take a proactive stance towards new requirements, which is why **HARTING** is the first company worldwide to have obtained the IRIS quality certificate for rail vehicles.



HARTING technology creates added value for customers.

Technologies by HARTING are at work worldwide. HARTING's presence stands for smoothly functioning systems powered by intelligent connectors, smart infrastructure solutions and sophisticated network systems. Over the course of many years of close, trust-based cooperation with its customers, the HARTING Technology Group has become one of the leading specialists globally for connector technology. We offer individual customers specific and innovative solutions that go beyond the basic standard functionalities. These tailored solutions deliver sustained results, ensure investment security and enable customers to achieve significant added value.

Opting for HARTING opens up an innovative, complex world of concepts and ideas.

In order to develop and produce connectivity and network solutions serving an exceptionally wide range of connector applications in a professional and cost-effective manner, HARTING not only commands the full array of conventional tools and basic technologies. Above and beyond these capabilities, HARTING is constantly harnessing and refining its broad base of knowledge and experience to create new solutions that also ensure continuity. To secure its lead in know-how, HARTING draws on a wealth of sources from its in-house research and applications.

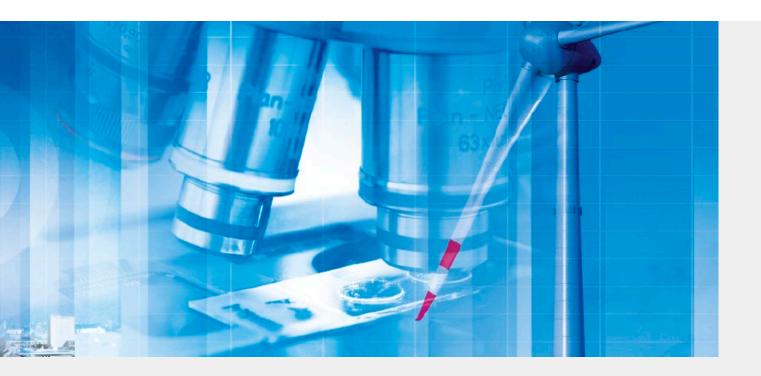
Salient examples of these sources of innovative knowledge include microstructure technologies, 3D design and connection technology,

high-temperature and ultrahigh-frequency applications that are finding use in telecommunications and automation networks, in the automotive industry, or in industrial sensor and actuator applications, RFID and wireless technologies, in addition to packaging and housing made of plastics, aluminium and stainless steel.

HARTING overcomes technological limitations.

Drawing on the comprehensive resources of the group's technology pool, HARTING devises practical solutions for its customers. Whether this involves industrial networks for manufacturing automation, or hybrid interface solutions for wireless telecommunication infrastructures, 3D circuit carriers with microstructures, or cable assemblies for high-temperature applications in the automotive industry – HARTING technologies offer not only components, but comprehensive solutions attuned to individual customer requirements and preferences. The range of cost-effective solutions covers ready-to-use cable configurations, completely assembled backplanes and board system carriers, as well as fully wired and tested control panels.

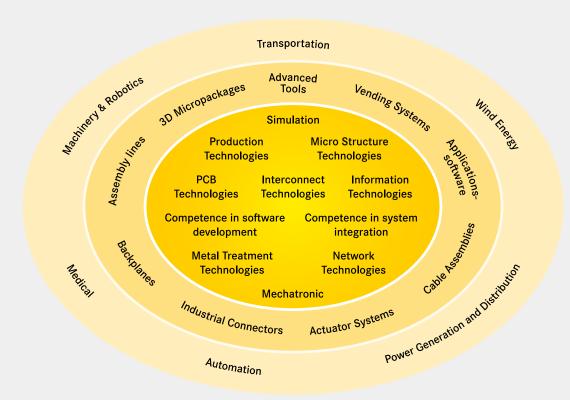
In order to ensure the future-proof design of RF and EMC-compatible interface solutions, the central HARTING laboratory (accredited according to DIN EN ISO/IEC 17025) employs simulation tools, as well as experimental, testing and diagnostics facilities all the way to Industrial computed tomography. In addition to product and process suitability considerations, lifecycle and environmental aspects play a key role in the selection of materials and processes.



HARTING's knowledge is practical know-how that generates synergy effects.

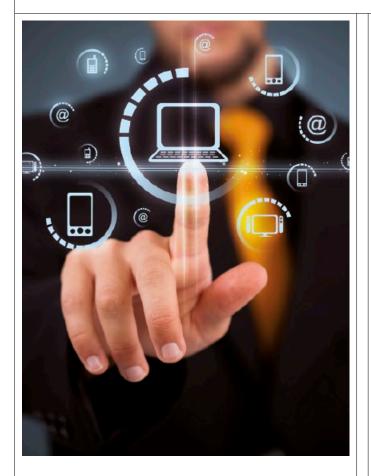
HARTING commands decades of experience with regard to the applications conditions involved in connections in telecommunications, computer, network and medical technologies, as well as industrial automation technologies, e.g. in the mechanical engineering and plant engineering areas, in addition to the power generation industry and the transportation sector. HARTING is

highly conversant with the specific application areas in all of these technology fields. In every solution approach, the key focus is on the application. In this context, uncompromising, superior quality is our hallmark. Every new solution found invariably flows back into the HARTING technology pool, thereby enriching our resources. And every new solution we go on to create will draw on this wealth of resources in order to optimize each and every individual solution. HARTING is synergy in action.



HARTING eCatalogue





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The HARTING e-Catalogue is your platform for conveniently selecting individual products as well as configuring complete solutions. Our comprehensive product pages provide you with all necessary technical information and CAD files in various formats for downloading. You may also contact our technical sales department directly.

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HARTING sensor actuator boxes with M12 ports

Features

- Available with 4-, 6- and 8-port design
- Different connection technologies for master cable
 - M23, pre-assembled or pluggable cable
- LEDs for operating- and status indicator
- · Matching cable assemblies available
- A-coded (4 or 5 poles)
- · Passive sensor actuator boxes

Technical characteristics

Degree of protection IP67

Number of channels 1 or 2 per port

Rated current 2 A per contact

9 A max. total

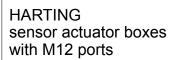
Rated voltage 10 - 30 V DC

Temperature range -30 °C ... +85 °C

Circuit logic pnp / npn

Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes			16 16 18 18 18 18 18 18 18 18 18 18 18 18 18
4 x M12, 4 poles 1 x M23, 12 poles	09 07 002 0120 0	26,65 26,65 26,65 26,65 26,65 26,65 26,65 26,65	
4 x M12, 4 poles 1 x M23, 12 poles	09 07 002 0120 1	29 73 107 116,5	
		107	Q,

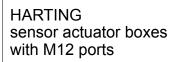






Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 6 x M12, 4 poles 1 x M23, 12 poles	09 07 002 1120 1		29 29 29
8 x M12, 4 poles 1 x M23, 12 poles	09 07 002 2120 0		26,65 26,65 26,65 26,65 26,65 27,65 26,65
8 x M12, 4 poles 1 x M23, 12 poles	09 07 002 2120 1		29,2 29,2 29,2 29,2 29,2 29,2 29,2 29,2







Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 4 x M12, 5 poles 1 x M23, 19 poles	09 07 003 0220 0	26.65 101 116.5	15 15 15 15 15 15 15 15 15 15 15 15 15 1
8 x M12, 5 poles 1 x M23, 19 poles	09 07 003 2220 0	26,65 26,65	26.65 26.65

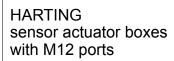




HARTING sensor actuator boxes with M12 ports

Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 4 x M12, 4 poles pre-assembled cable 3 x 0.75 mm² + 4 x 0.34 mm² L = 2 m PVC L = 5 m L = 10 m L = 2 m PUR L = 5 m L = 10 m	09 07 001 0125 3 09 07 001 0125 1 09 07 001 0125 0 09 07 001 0120 3 09 07 001 0120 1 09 07 001 0120 0	HARTING part no.	79 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
8 x M12, 4 poles pre-assembled cable 3 x 0.75 mm² + 8 x 0.34 mm² L = 2 m PVC	09 07 001 2125 3 09 07 001 2125 1 09 07 001 2125 0 09 07 001 2120 3 09 07 001 2120 1 09 07 001 2120 0	10rs HARTING part no.	29.2 29.2 29.2 29.2 10.7 20.2 29.2 29.2 10.7 20.2 29.2 29.2 29.2 29.2 29.2 29.2 29.2

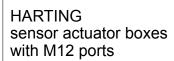






Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes		3	
4 x M12, 5 poles pre-assembled cable 3 x AWG18 + 8 x AWG22		10-15 C C C C C C C C C C C C C C C C C C C	27 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
PVC L = 5 m L = 10 m	09 07 001 0225 3 09 07 001 0225 1 09 07 001 0225 0		HARTING part no.
L = 2 m PUR	09 07 001 0220 3 09 07 001 0220 1 09 07 001 0220 0	73 107 116,	
8 x M12, 5 poles pre-assembled cable 3 x AWG18 + 16 x AWG22		100:5 100:5 100:5	THE THE PART OF TH
PVC L = 2 m L = 5 m L = 10 m	09 07 001 2225 3 09 07 001 2225 1 09 07 001 2225 0	HARTING part no.	29,2 29,2 29,2
L = 2 m PUR	09 07 001 2220 3 09 07 001 2220 1 09 07 001 2220 0	13 107	







Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 4 x M12, 4 poles connection cover	09 07 000 0120 0	Wire Diameter 85-16mm (SW27) 26,65 26,65 107 116,5	
6 x M12, 4 poles connection cover	09 07 000 1120 0		30



HARTING sensor actuator boxes with M12 ports



Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 8 x M12, 4 poles connection cover	09 07 000 2120 0	05 you	6 part no. 26.65 26.65 26.65 107 155
8 x M12, 5 poles connection cover	09 07 000 2220 0	HAP TO A TO	26.55 -26.55



HARTING sensor actuator boxes with M8 ports



Features

- Available with 4-, 6- and 8-port design
- Different connection technologies for master cable
 - Pre-assembled cable, M12 or M16
- LEDs for operating- and status indicator
- Matching cable assemblies available
- A-coded (3 or 4 poles)
- · Passive sensor actuator boxes

Technical characteristics

Degree of protection IP67

Number of channels 1 per port

Rated current 2 A per contact

6 A max. total

Rated voltage 10 - 30 V DC

Temperature range -25 °C ... +85 °C

Circuit logic pnp / npn

Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 4 x M8, 3 poles		M721 1	97
1 x M12, 8 poles	09 07 005 0010 0	HARTING part no. 10 10 10 10 10 10 10 10 10 1	
6 x M8, 3 poles 1 x M12, 8 poles	09 07 005 1010 0	107,2 99,8	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		HARTING part no.	340.55

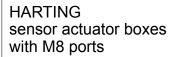


HARTING sensor actuator boxes with M8 ports



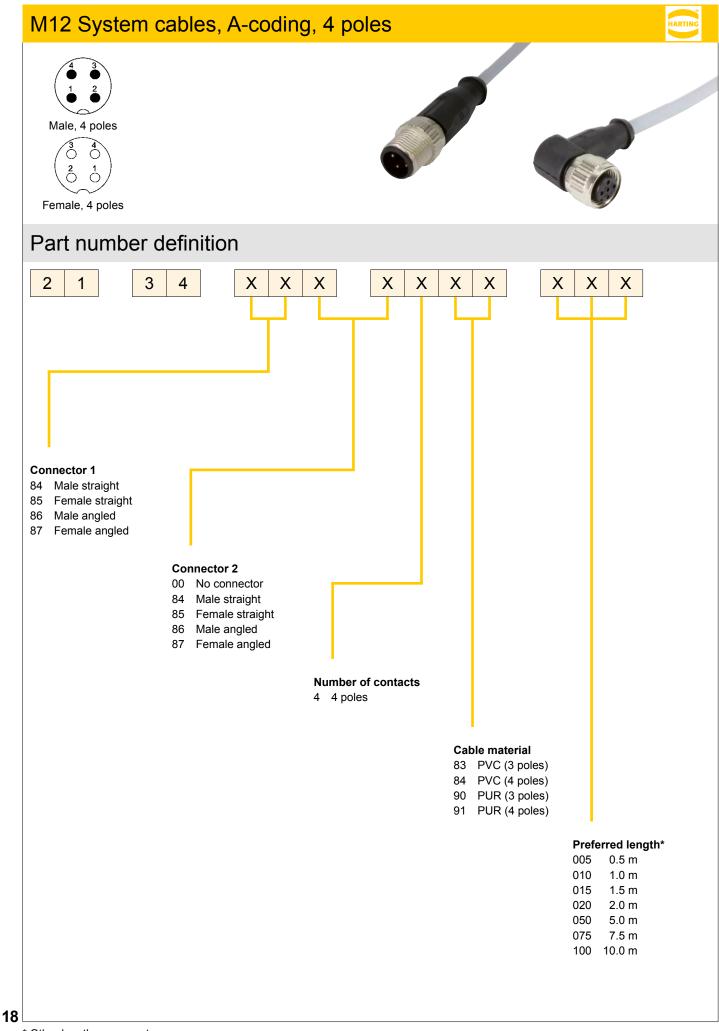
Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes 8 x M8, 3 poles 1 x M12, 12 poles	09 07 006 2010 0	M12x1 127,5 120 120 HARTING part no. 20	
6 x M8, 3 poles 1 x M16, 14 poles	09 07 004 1010 0	M16x0,75 103,2 99,8 103,2 104,0 105,0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
8 x M8, 3 poles 1 x M16, 14 poles	09 07 004 2010 0	25 20 127,5	20 20 20 20 20 20 20 20 20 20 20 20 20 2



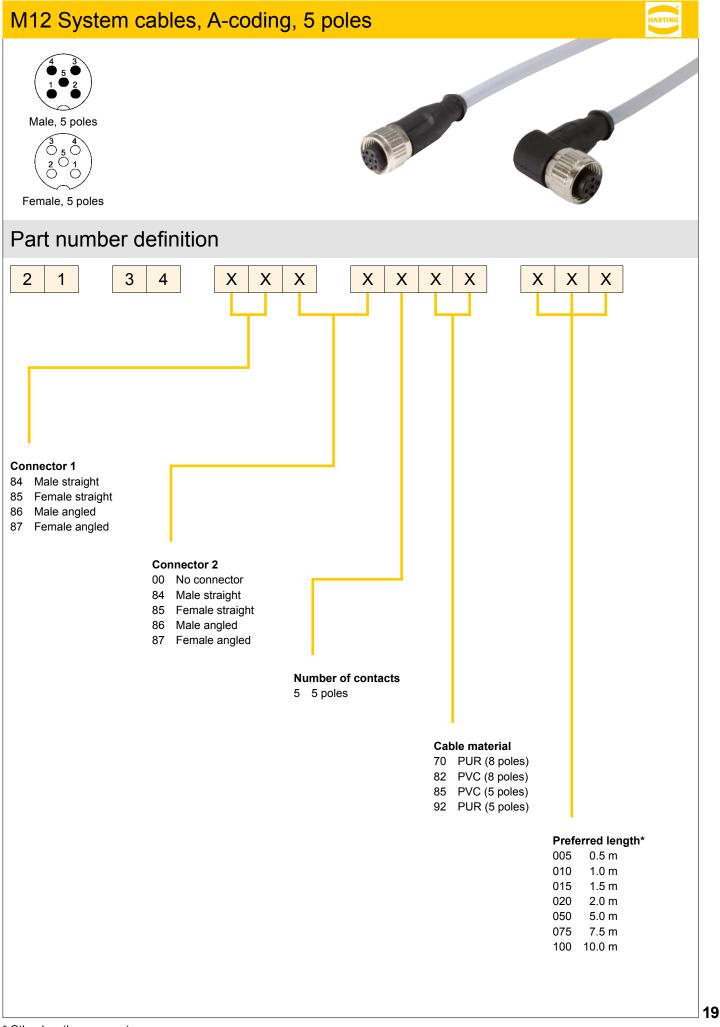




Identification	Part number	Drawing	Dimensions in mm
HARTING sensor actuator boxes			
8 x M8, 3 poles pre-assembled cable 2 x AWG20 + 8 x AWG24		19:15	
PVC L = 2 m L = 5 m L = 10 m	09 07 001 2015 3 09 07 001 2015 1 09 07 001 2015 0	1100-5 &	HARTING part no. 20 20 20 CO
L = 2 m PUR	09 07 001 2010 3 09 07 001 2010 1 09 07 001 2010 0		20 20 20 20 131
4 x M8, 4 poles pre-assembled cable 2 x AWG20 + 8 x AWG24		10015	
PVC L = 2 m L = 5 m L = 10 m	09 07 001 0115 3 09 07 001 0115 1 09 07 001 0115 0	10015	57
L = 2 m PUR	09 07 001 0110 3 09 07 001 0110 1 09 07 001 0110 0		HARTING part no. 3



^{*} Other length on request



M8 System cables 3 and 4 poles Male, 3 poles Male, 4 poles Female, 3 poles Female, 4 poles Part number definition 2 1 3 4 X X Χ Χ Χ Χ Χ Χ Χ **Connector 1** 80 Male straight Female straight 81 82 Male angled Female angled Connector 2 00 No connector 80 Male straight 81 Female straight 82 Male angled 83 Female angled **Number of contacts** 3 3 poles 4 4 poles Cable material 80 PVC (3 poles) 81 PVC (4 poles) 88 PUR (3 poles) 89 PUR (4 poles) Preferred length* 005 0.5 m 1.0 m 010 015 1.5 m 020 2.0 m 050 5.0 m 075 7.5 m 100 10.0 m

20

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