Selection and ordering data
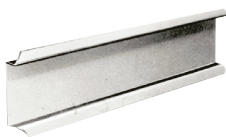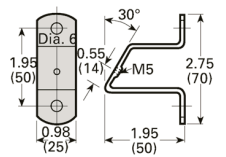
	Design	Order No.	Price 1 unit	Pack Unit
	AS-Interface cover for FK coupling module and Pg coupling module EMS (electromechanical interface)	3RX9 800-0AA00		1
	AS-Interface M 12 branch Transition from shaped AS-Interface cable to standard round cable Insulation piercing method for connecting the AS-Interface cable M12 socket for connecting standard round cable IP 65 degree of protection	3RX9 801-0AA00		1
	AS-Interface M12 blank plugs for unused M 12 sockets (1 packg.= 10 units)	3RK1 901-1KA00		10
	AS-Interface M8 blank plugs for unused M8 sockets (1 packg.= 10 units)	3RK1 901-1PN00		10
	AS-Interface Pg11 sealing gasket for the shaped AS-Interface cable for insertion in Pg 11 screwed glands (1 packg.= 10 units)	3RX9 805-0AA00		10
	FK/Pg cable adapter for connecting the AS-Interface cable to the Pg screwed gland with the insulation piercing method • Continues via standard cable			
	– for Pg 11 screwed gland	3RX9 806-0AA00		1
	– for Pg-13.5 screwed gland	3RX9 807-0AA00		1
	– for Pg-9 screwed gland	3RX9 808-0AA00		1
	• Continues via pins			
	– for Pg 11 screwed gland	3RX9 816-0AA00		1
	– for Pg-13.5 screwed gland	3RX9 817-0AA00		1
	– for Pg-9 screwed gland	3RX9 818-0AA00		1
	Cable clip for FK/Pg cable adapter Suitable for 3RX9 806-0AA00 3RX9 807-0AA00 3RX9 808-0AA00 3RX9 816-0AA00 3RX9 817-0AA00 3RX9 818-0AA00 (1 packing= 10 units)	3RK1 901-3QA00		10
	Cable end piece for sealing open cable ends (shaped AS-Interface cable) in IP 67 (1 packg.= 10 units)	3RK1 901-1MN00		10
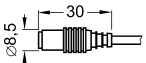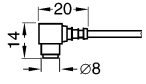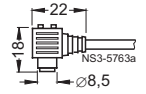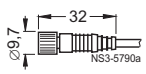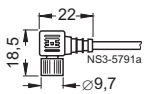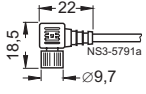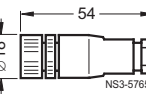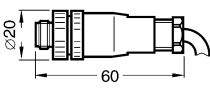
Selection and ordering data

	Design		Order No.	Price	Pack
				1 unit	Unit
6ES7194-1KA00-0XA0	**Y-Shaped M12-5 Coupling Plug** For Use with Standard and Compact Modules with Y- and Y-II Connections. Used with 2 separate sensors		**6ES7194-1KA00-0XA0**		
	Y-Shaped M12-5 Coupling Plug For Use with Standard and Compact Modules with Y- and Y-II Connections. Used for Photoelectric Sender and Receiver ①		**3RX1682**		
	1 bag of Gaskets For mounting plate 3RK1901-0CA00 and 3RK1902-0AP00 consisting of 5 straight and 5 profiled gaskets		**3RK1902-0AR00**		
CMR.	**DIN Mounting Rail** Galvanized 35 mm x 7.5 mm x 1 mm				
		3.25 ft	**CMR3-2**		2
		6.5 ft	**CMR6**		1
5ST1146	**DIN Mounting Rail** Chromated 35 mm x 15 mm x 1.5 mm				
		6.5 ft	**5ST1142**		
8WA746	**DIN Mounting Rail, Slotted** Chromated 35 mm x 7.5 mm x 1 mm				
		6.5 ft	**5ST1146**		
	Mounting Bracket For Angular Mounting of Mounting Rails		**8WA746**		
	Tubular Sensor Mounting Brackets (molded plastic)				
		M12	**3SX6282**		
		M18	**3SX6283**		
		M30	**3SX6284**		

8WA746 dimensions: 30°, Dia. 6, 1.95 (50), 0.55 (14), M5, 2.75 (70), 0.98 (25), 1.95 (50)

3SX628.

NS3-5808

	3SX6281	3SX6282	3SX6283	3SX6284
a	26	36	45	58
b	22	30	30	30
c	11.6	18	26	36
d	dia. 3.5	dia. 4.5	dia. 4.5	dia. 4
e	16	24	32	44
f	12.6	18.5	19.6	19.6
g	7.9	11.9	18.0	29.8
	(for M8)	(for M12)	(for M18)	(for M30)

① Refer to "Connections" for a visual reference and pin assignments, page 16/43.
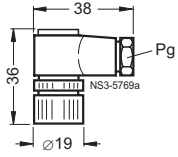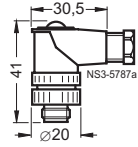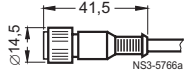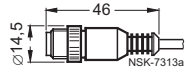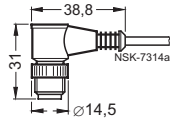
Plug	Termination type	Description	Catalog no.	Price
3RX1518, 3RX1522	Ø8	**8 mm Straight Female Cable Plug** (snap on mounting) with black PUR connecting cable Length: 5 m (16.4 ft), IP65		
	Ø8-3	with 3 conductors	**3RX1518**	
	Ø8-4	with 4 conductors	**3RX1522**	
3RX1525, 3RX1528	Ø8	**8 mm Right Angle Female Cable Plug** (snap on mounting) with black PUR connecting cable Length: 5 m (16.4 ft), IP65		
	Ø8-3	with 3 conductors	**3RX1525**	
	Ø8-3	with 3 conductors, 2 LEDs (PNP current sourcing output only)	**3RX1531**	
3RX1531	Ø8-4	with 4 conductors	**3RX1528**	
3RX1578, 3RX1577	M8	**M8 Straight Female Cable Plug** (metal union nut) with black PUR cable Length: 5 m (16.4 ft), IP67		
	M8-3	with 3 conductors	**3RX1578**	
	M8-4	with 4 conductors	**3RX1577**	
3RX1576, 3RX1575	M8	**M8 Right Angle Female Cable Plug** (metal union nut) with black PUR cable Length: 5 m (16.4 ft), IP67		
	M8-3	with 3 conductors	**3RX1576**	
	M8-3	with 3 conductors, 2 LEDs (PNP current sourcing output only)	**3RX1666**	
3RX1666	M8-4	with 4 conductors	**3RX1575**	
3RX1505, 3RX1584	M12	**M12 Straight Female Plug** black with screw terminals (19AWG max.) DC up to 300V AC up to 275V		
	M12-4	with 4 screw terminals	**3RX1505**	
	M12-5	with 5 screw terminals	**3RX1584**	
3RX1586, 3RX1667	M12	**M12 Straight Male Plug** black with screw terminals (19AWG max.)		
	M12-4	with 4 screw terminals	**3RX1586**	
	M12-5	with 5 screw terminals	**3RX1667**	

All dimensions shown in millimeters. For reference
purposes only. Not to be used for design or
construction purposes.
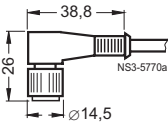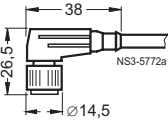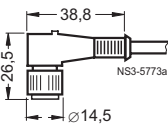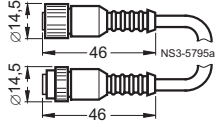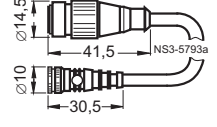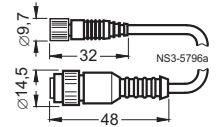
Typical connecting plugs

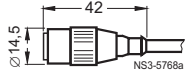| Plug	Termination type	Description	Catalog no.	Price
3RX1502, 3RX1585	M12	**M12 Right Angle Female Plug** black with screw terminals (19 AWG max.)		
	M12-4	with 4 screw terminals DC up to 300V AC up to 275V	**3RX1502**	
	M12-5	with 5 screw terminals DC up to 300V AC up to 275V	**3RX1585**	
3RX1587, 3RX1668	M12	**M12 Right Angle Male Plug** black with screw terminals (19 AWG max.)		
	M12-4	with 4 screw terminals	**3RX1587**	
	M12-5	with 5 screw terminals	**3RX1668**	
3RX1533, 3RX1668	M12	**M12 Straight Female Cable Plug** (metal union nut) with PUR connecting cable Length: 5 m (16.4 ft), IP67		
	M12-3	with 3 conductors, orange cable	**3RX1535**	
	M12-3	with 3 conductors, black cable (normally open output only)	**3RX1533**	
3RX1535, 3RX1513	M12-4	with 4 conductors, orange cable	**3RX1513**	
	M12-4	with 4 conductors, black cable	**3RX1536**	
	M12-5	with 5 conductors, orange cable	**3RX1570**	
	M12-5	with 5 conductors, black cable	**3RX1630**	
3RX1672	M12	**M12 Straight Male Cable Plug** black PUR connecting cable Length: 5 m (16.4 ft), IP67		
	M12-4	M12-4with 4 conductors	**3RX1672**	
3RX1674	M12	**M12 Right Angle Male Plug** black PUR connecting cable Length: 5 m (16.4 ft), IP67		
	M12-4	M12-4with 4 conductors	**3RX1674**	

All dimensions shown in millimeters. For reference purposes only. Not to be used for design or construction purposes.
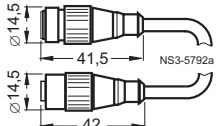
Plug	Termination type	Description	Catalog no.	Price
3RX1538, 3RX1542	M12	**M12 Right Angle Female Cable Plug** (metal union nut) with PUR connecting cable Length: 5 m (16.4 ft.) IP67		
	M12-3 M12-3	With 3 conductors, orange cable With 3 conductors, black cable (normally open output only)	**3RX1538** **3RX1541**	
3RX1541, 3RX1512, 3RX1515, 3RX1567	M12-3 M12-3	With 3 conductors, orange cable, 2 LEDs DC 24V With 3 conductors, black cable, 2 LEDs DC 24V (normally open or normally closed, pnp, current sourcing output)	**3RX1515** **3RX1544**	
	M12-4 M12-4	With 4 conductors, orange cable3RX1512 With 4 conductors, black cable3RX1542	**3RX1512** **3RX1542**	
	M12-4 M12-4	With 4 conductors, orange cable, 2 LEDs DC 24V With 4 conductors, black cable, 2 LEDs DC 24V (normally open or normally closed r normally closed, pnp, current sourcing output)	**3RX1567** **3RX1568**	
3RX1544, 3RX1568	M12-5	With 5 conductors, orange cable	**3RX1571**	
3RX1633, 3RX1634, 3RX1635	M12/M12	**Connection cable with M12 Female Plug and Male Plug** (metal union nut)		
	M12-3	With 3 conductors, orange cable 0.5 m (1.6 ft.) 1.0 m (3.3 ft.) 1.5 m (4.9 ft.) (Normally open output only)	**3RX1633** **3RX1634** **3RX1635**	
3RX1641, 3RX1640, 3RX1642	M12-4	With 4 conductors, black cable 0.5 m (1.6 ft.) 1.0 m (3.3 ft.) 1.5 m (4.9 ft.)	**3RX1641** **3RX1640** **3RX1642**	
3RX1636, 3RX1637, 3RX1638	M12/M8	**Connection cable with M12 Male Plug and** M8 Female Plug (metal union nut)		
	M12-3 M8-3	With 3 conductors, orange cable 0.5 m (1.6 ft.) 1.0 m (3.3 ft.) 1.5 m (4.9 ft.)	**3RX1636** **3RX1637** **3RX1638**	
3RX1647, 3RX1646 3RX1648, 3RX1644 3RX1643, 3RX1645	M12-3 M8-3	With 3 conductors, orange cable 0.5 m (1.6 ft.) 1.0 m (3.3 ft.) 1.5 m (4.9 ft.)	**3RX1647** **3RX1646** **3RX1648**	
	M12-4 M8-4	With 4 conductors, orange cable 0.5 m (1.6 ft.) 1.0 m (3.3 ft.) 1.5 m (4.9 ft.)	**3RX1644** **3RX1643** **3RX1645**	

All dimensions shown in millimeters. For reference
purposes only. Not to be used for design or
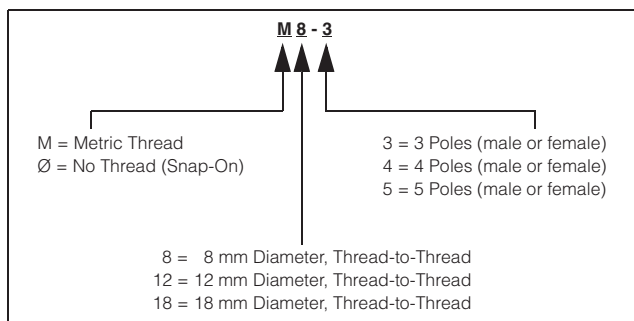construction purposes.

General accessories

Connector definitions

Connector (a.k.a. Quick Disconnect): A general term for a device attached to two or more wires or cables for the purpose of connecting electric circuits without the use of permanent splices.

Female Typically has provisions for the acceptance of pins to establish an electrical connection and internal threads for mechanical connection.

Male Typically has pins to establish an electrical connection and external threads for mechanical connection.

M8 (a.k.a. Nano, Nano Style, Pico): A connector/termination type with a nominal face diameter of 0.222 inches (5.64 mm). M = Metric thread, 8 = 8 mm diameter, thread-to-thread.

M12 (a.k.a. Eurofast, Micro, Micro Change DC, Micro Style): A connector/termination type with a nominal face diameter of 0.290 inches (7.37 mm). M = Metric thread, 12 = 12 mm diameter, thread-to-thread.

M18 A connector/termination type with a nominal face diameter of 0.965 inches (24.5 mm). M = Metric thread, 18 = 18 mm diameter, thread-to-thread.

Ø8 (a.k.a. Nano, Nano Style, Pico): A connector/termination type with a nominal face diameter of 0.222 inches (5.64 mm). Ø = No Threading (snap on), 8 = 8 mm diameter.

Plug The moveable half of a connector usually associated with wires or cables that by insertion into a receptacle establishes an electrical connection between the power source and an electrical load device.

Receptacle (a.k.a. Socket): The mating half of a connector that is usually stationary and associated with wires or cables, that allows insertion of a plug for the purpose of establishing an electrical connection between an electrical load device and the power source.

Typical Connector Numbering System

$$\underline{M}\ \underline{8} - \underline{3}$$

M = Metric Thread
Ø = No Thread (Snap-On)

3 = 3 Poles (male or female)
4 = 4 Poles (male or female)
5 = 5 Poles (male or female)

8 = 8 mm Diameter, Thread-to-Thread
12 = 12 mm Diameter, Thread-to-Thread
18 = 18 mm Diameter, Thread-to-Thread

Utilization categories for switching elements

The utilization categories given below are considered standard per IEC specification 947-5-1.

Kind of current	Utilization category	Typical application
Alternating current (AC)	AC-15	Control of electromagnetic loads (L72VA)
Direct current (DC)	DC-12	Control of resistive loads and solidstate loads with isolation by opto couplers
	DC-13	Control of electromagnets
	DC-14	Control of electromagnetic loads having economy resistors in circuit